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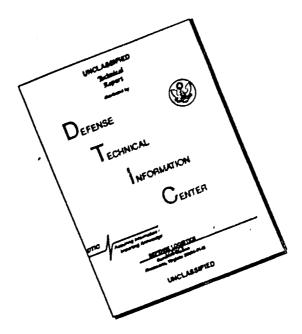
REPORT OF FINAL THST ON PROTOTYPE UNIVERSAL TYPE NET THRUST COMPUTER SYSTEM

March 26, 1965 Prepared under Navy, Bureau of Weapons Contract NOv 64-0513-f

Final Report M62NO:-TR-LA Revised 5/17/65 Covering Period Nov. 1964 to Mar. 1965



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ABSTRACT

Contract NOw-64-0513-f let to Telectro-Mek, Inc., Fort Wayne, Indiana, provided for the design. development, fabrication, and test of three (3) Prototype Net Thrust Computer Systems and necessary probing to install two of the Systems in a Navy A3D aircraft. The third system to be subjected to environmental and life testing and then supplied as a replacement spare for the first two systems. Systems 1 and 2 passed the Individual and Qualification tests with an error of less than 14% of full thrust over the entire range of the engine operation. System number 3 passed the Individual, Qualification, Environmental and Life tests with an error of less than 14% of full thrust over the entire range of the engine operation, while the system was being subjected to the full environmental tests. System 3 operated for 536 hours of Life testing without a failure. All three systems are at the Naval Air Station, Whidbey Island, Washington, for flight trials.

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- 1.0 SYNOPSIS
- 1.1 <u>Introduction</u>
- 1.1.1 This final report covers the work done by Telectro-Mek, Inc. for Navy Bureau of Weapons under Contract NOw 64-0513-f. This contract provided for design, development, fabrication and furnishing of three (3) Prototype Net Thrust Computing Systems, Contractors Model No. TME-303, including Transmitters, Computers, Indicators, Probes and Cables for flight testing purposes.
- 1.1.2 This Test Report forms Item 4 of the Contract and contains a full report, with accompanying data on the Qualification, Environmental, and Life Tests performed on the three (3) Prototype Net Thrust Computing Systems designated as Item 1 on the aforementioned contract.
- 1.1.2 The testing was performed in compliance with the said contract and with Technical Proposal No. P62NO5-3. Detailed procedures for the Environmental testing was performed as specified in MIL-E-5272C and MIL-E-5009A.
- 1.1.4 The Prototype Net Thrust Computing Systems, Model TME-303, Item 1 were tested as follows.
- 1.1.4.1 Item 1 Serial Nos. 1 and comprising:
 - Qty 10 Transmitters Part No. 300015-2,4,5,6,8 Serial Numbers 1 through 10
 - Qty 2 Gross Thrust Computers Part No. 400041-Gl
 - Qty 2 Ram Drag Computers Part No. 400041-G2
 - Qty 2 Indicators Part No. 200295-G4
 - Qty 2 Probe Assemblies Part No. CV 201-7

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- 1.1.4.1.1 These two systems were subjected to the Individual and Qualification Testing in accordance with Proposal No. 62NO5-3 and then delivered to the Naval Air Station, Whidbey Island, Washington.
- 1.1.4.2 Item No. 1 Serial Number 3 comprising:
 - Qty 5 Transmitters Part No. 300015-2,4,5,6,8 Serial Nos. 9,10,6,1,2
 - Qty 1 Ram Drag Computer Part No. 400041-G2
 - Qty 1 Gross Thrust Computer Part No. 400041-G1
 - Qty 1 Indicator Part No. 200295
 - Qty 1 Probe Assembly Part No. CV 201-7
- 1.1.4.2.1 This System was subjected to the Individual and Qualification Testing in accordance with Proposal No. P62N05-3. The Ram Drag and Gross Thrust Computers were then subjected to the Environmental Testing specified in MIL-E-5272C and MIL-E-5009A. Then the Transmitters, Ram Drag Computers, Gross Thrust Computer, and Indicator were subjected to a 500 hour Life Test.

The System was then dispatched to the Naval Air Station, Whidbey Island, Washington.

- 1.2 Summary of the Tests
- 1.2.1 Item 1 Serial Nos 1 and 2, systems subjected to Individual and Qualification Tests, performed as follows:
- 1.2.1.1 Scale Error allowed

Gross Thrust 1.82% of Full Scale

Net Thrust 2.75% of Full Scale

Percent Thrust 2.925% @ Sea Level

7.88% @ 25,000 feet or above

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1.2.1.1.1 Max Scale Error Indicated

	Recorded	% Full Scale
System 1 Gross Thrust	260 lbs	. 866%
System 1 Net Thrust	350 lbs	1.16 %
System 1 % Thrust (Sea Level)	2.0%	1.66 %
System 1 % Thrust (45,000 ft)	3.0%	2.50 %
System 2 Gross Thrust	260 lbs	. 866%
System 2 Net Thrust	260 lbs	. 866%
System 2 % Thrust (Sea Level)	1.0%	.833%
System 2 % Thrust (25,000 ft)	2.5%	2.08.%

1.2.1.2 Friction Error Allowed 0.50% full scale

1.2.1.2.1 Max Error Recorded

	Net Thrust	Percent Thrust
System 1	0.166%	0.166%
System 2	0.166%	0.166%

1.2.1.3 Sensitivity

System 1 Responded to less than 1% change in thrust System 2 Responded to less than 1% change in thrust

1.2.1.4 Response Time

- System 1 Responded to a 20% change of thrust in less than 1 second.
- System 2 Responded to a 20% change of thrust in less than 1 second.
- 1.2.1.5 Full data pertaining to the above tests are contained in Section 2.0.
- 1.2.2 Item 1 Serial No. 3 System subjected to Individual and Qualification Test's performed as follows:

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1.2.2.1 Scale Error Allowed

Gross Thrust 1.82% of full scale
Net Thrust 2.75% of full scale
Percent Thrust 2.925% Sea Level
7.88% at 25,000 feet or above

1.2.2.1.1 Max Scale Error Indicated

	Recorded	% Full Scal
Gross Thrust	260 lbs	.866%
Net Thrust	330 lbs	1.10 %
% Thrust (Sea Level)	1.5 %	1.25 %
% Thrust (45,000 ft)	3.0 %	2.50 %

- 1.2.2.2 Friction Error Allowed .75% full scale
- 1.2.2.2.1 Max Error Recorded Net Thrust 0.266% % Thrust 0.5%
- 1.2.2.3 Sensitivity

System 3 Responded to less 1% change in thrust

1.2.2.4 Response Time

System 3 Responded to a 20% change in thrust in less than 1 second.

1.2.2.5 Environmental Tests

System Serial No. 3 Gross Thrust Computer and Ram Drag Computer were subjected to the following tests:

- (a) Low Temperature
- (b) Temperature/altitude
- (c) High Temperature
- (d) Vibration
- (e) Shock
- 1.2.2.5.1 At each check point during these tests System 3 performed within the specified accuracy limits.
- 1.2.2.6 Life Tests System Serial No. 3 operated during Life

 Test for a period of 536 hours without failure. Immediately

 after Life Testing at the 341st hour the digits in the Indicator

 Part No. 200295 started to stick. These had to be removed and

 reworked.

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- 1.2.2.7 Full data for the Individual Qualification, Environmental and Life Tests for System Serial No. 3 are contained in Section 3.0.
- 1.2.3 The Transmitters, Part No. 300015, and the Indicators,
 Part No. 200295, were not subjected to Environmental Tests
 because identical units had previously been subjected to
 these tests for Qualification on the Air Force Contract
 AF 33(657)-9589. The results of the Environmental Tests on
 these previous items are contained in Section 3.0 of this
 report.

1.3 Conclusions

That Item 1 Prototype Net Thrust Computing Systems Model TME-303 Serial Numbers 1, 2, and 3 all met the accuracies and specifications contained in the Proposal No. P62NO5-3.

1.4 Recommendations

- 1.4.1 Flag Redesign It is recommended that the Flag Mechanism and digital counter mechanism which started to stick after 541 hours of operation be redesigned.
- 1.4.1 Check-out Gear This equipment was used during testing to simulate the engine pressures. For normal maintenance on the equipment, when it is mounted in the aircraft, this type of equipment is essential for checking out the system when it is not desirable to run the engines. Recommend check-out equipment be purchased as an essential maintenance tool for the System.

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- 1.4.2 Temperature Bug The present max percent thrust indication is a variable dependent on the temperature of the day as noted in Instruction Book P62NO5-OI-6, Item 3 of Contract. It is recommended that an automatic temperature bug limit be incorporated in future systems to eliminate need for reference to charts and temperature gage. Similar systems have been engineered, built and sold to Air Force and F.A.A. and are found very desirable.
- 1.4.3 Air Tests It is recommended that Model TME-303, Prototype Net Thrust Computing Systems, be flight tested and the results published.
- 1.5 Test Apparatus Used

Simulator Telectro-Mek, Inc. Part No. 400002-G1
Wide Range Oscillator Hewlett Packard 200 CD
Barometer, Wallace and Tiernan Model FA-129
"Thermo Meter" Simpson Model 388
Vacuum Tube Volt Meter H.P. Model 400L
Multimeter Simpson Model 260
Electronic Gounter H.P. Model 5253A
Oscilloscope, Tektronix Type 561
Frequency Changer Sorensen Model FCD 500R
Bowser Climatic Chamber Model 36-100VH Stock No. 10278
Thermo Electric Bridge Model 80200 Stock No. 10757
Calidyne Shaker Model 177A Stock No. 9549
Aveo Shock Machine Model SM-030 Serial No. 1003

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Endevco Accelerometers Model Serial No. BA-44, R-272, R-273

Endevco Cathode Follower Model 2608, Serial No. 8541,8547, 474

Endevco Power Supply Model 2622 Stock No. 9052

Tektronix Oscilloscope Model 545 Stock No. 6598

Polaroid Oscilloscope Camera Stock No. 7147

Dumont Oscilloscopes Model 304, Stock No. 4791, 3606, 5029

H-P V.T.V.M. Model 400H Stock No. 9559

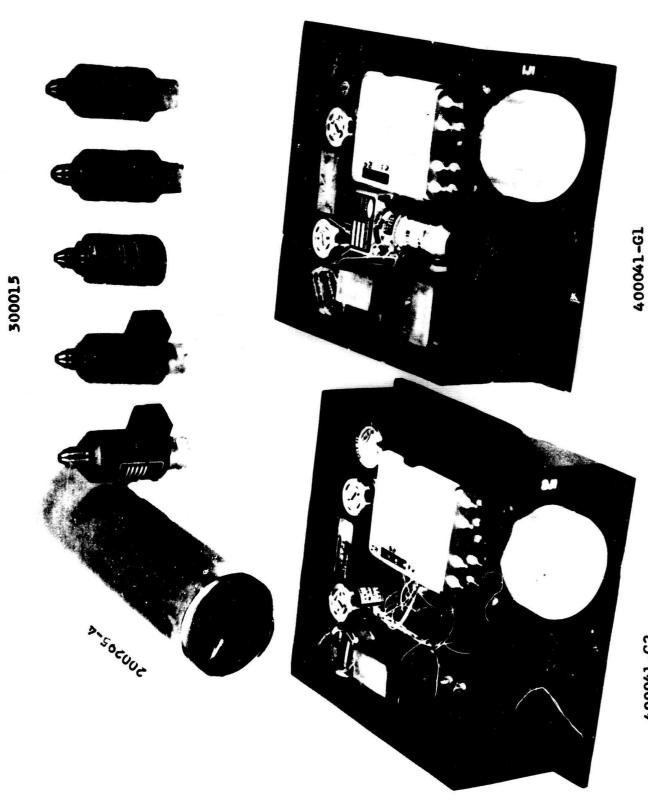
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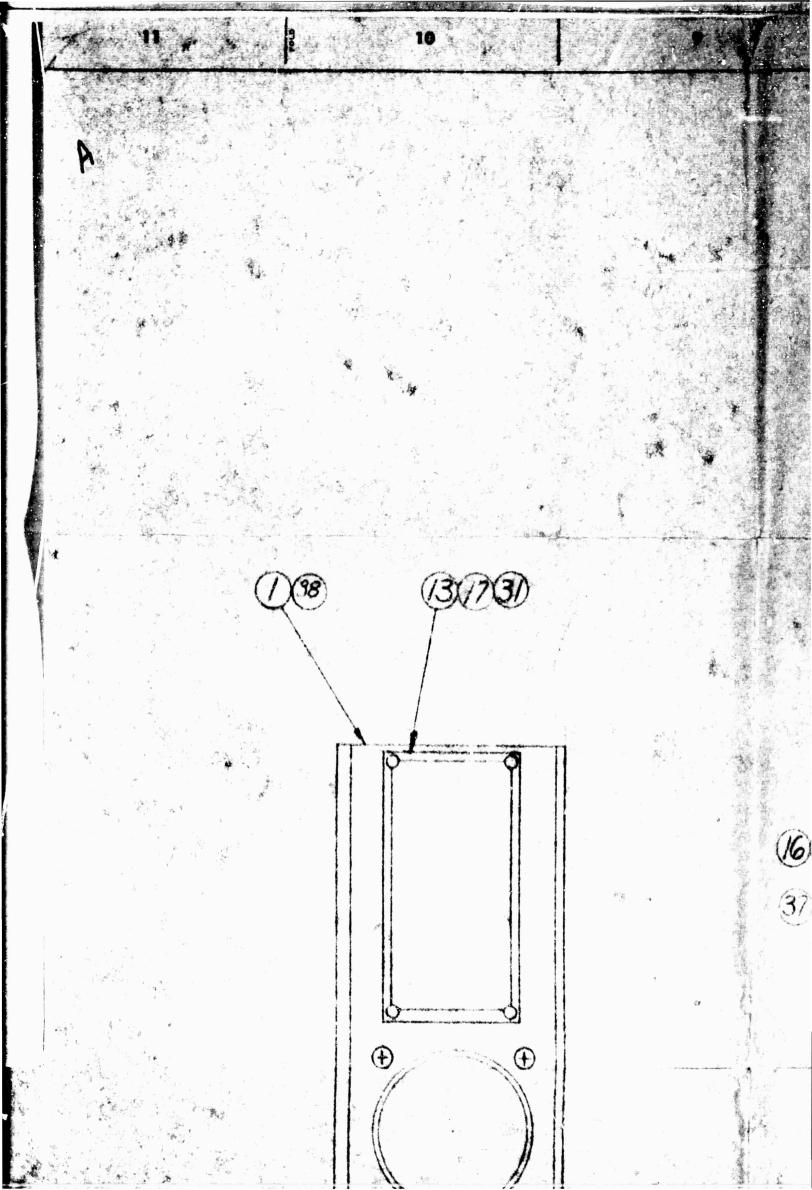
APPENDIX I

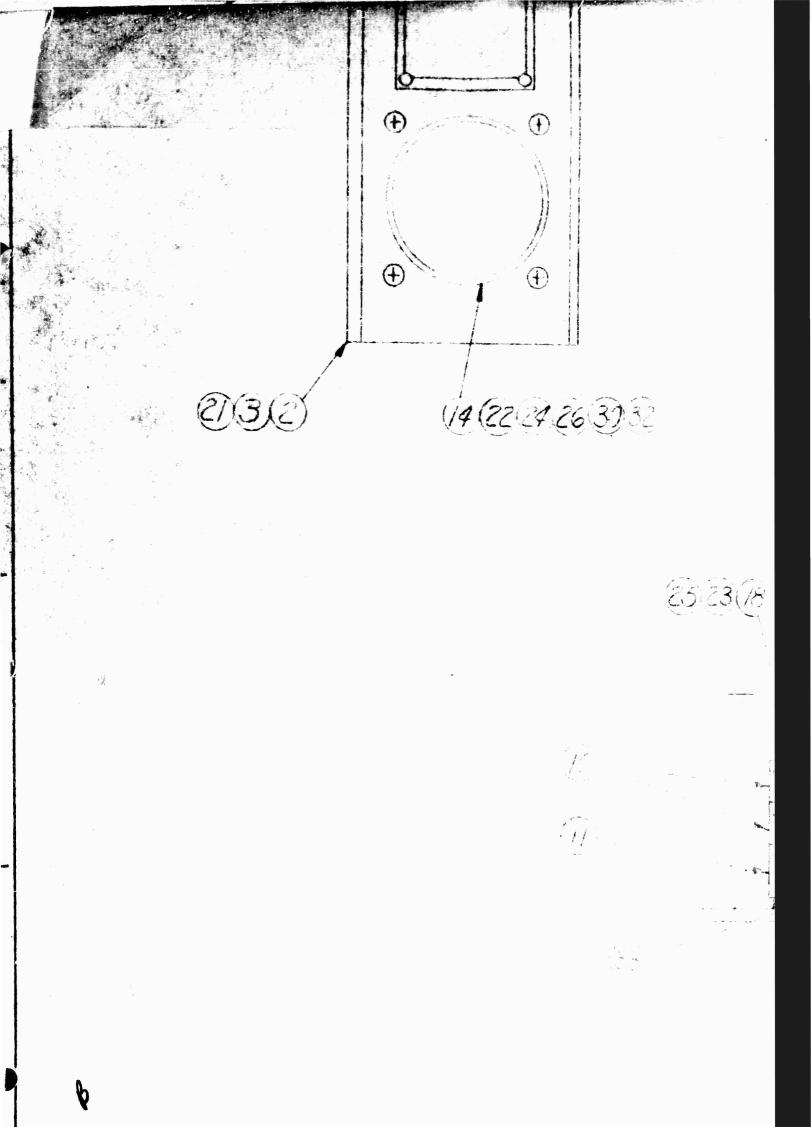
This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

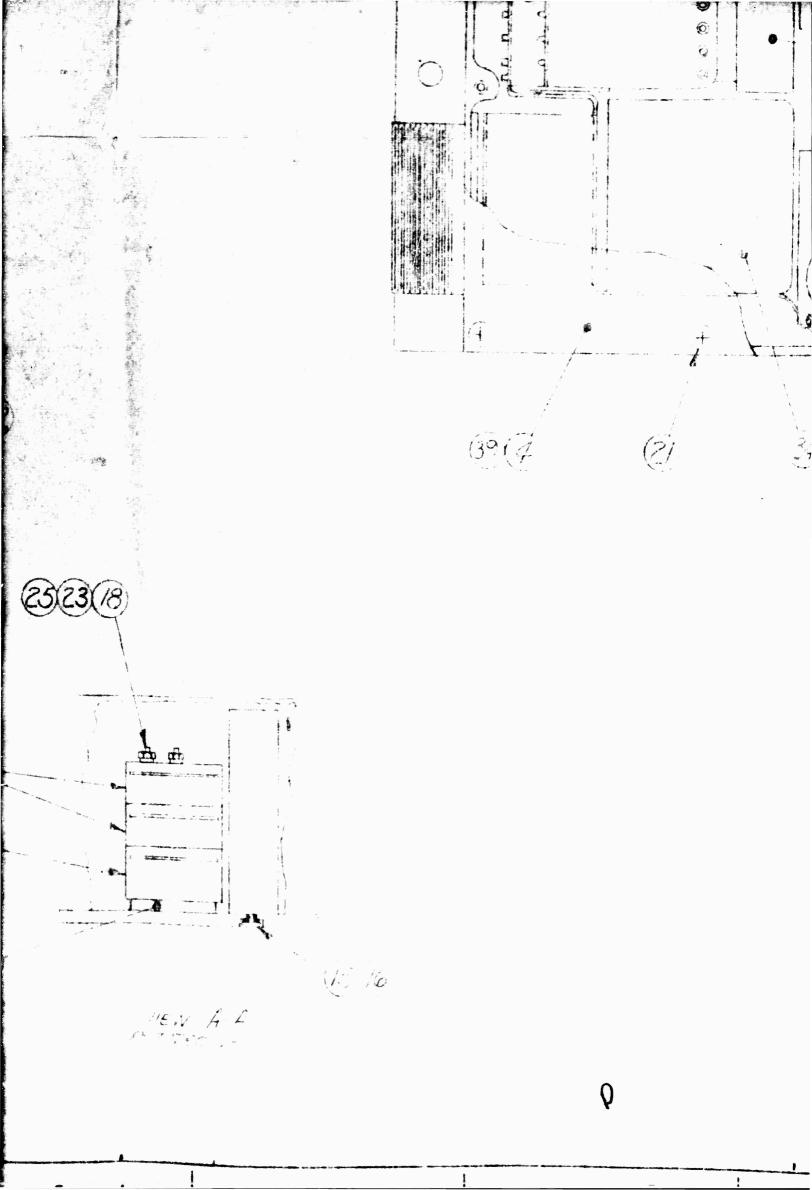
Quantity	Drawing	Title
1	P66	TME-303 System Part No. 200297-1
1	400041	Computer Module Assembly
1	300015	Transmitter, Pressure
. 1	200327	Probe, Pitot Static-C-V 201-7
1	200295	Indicator, Thrust - Digital and Percent



400041-62





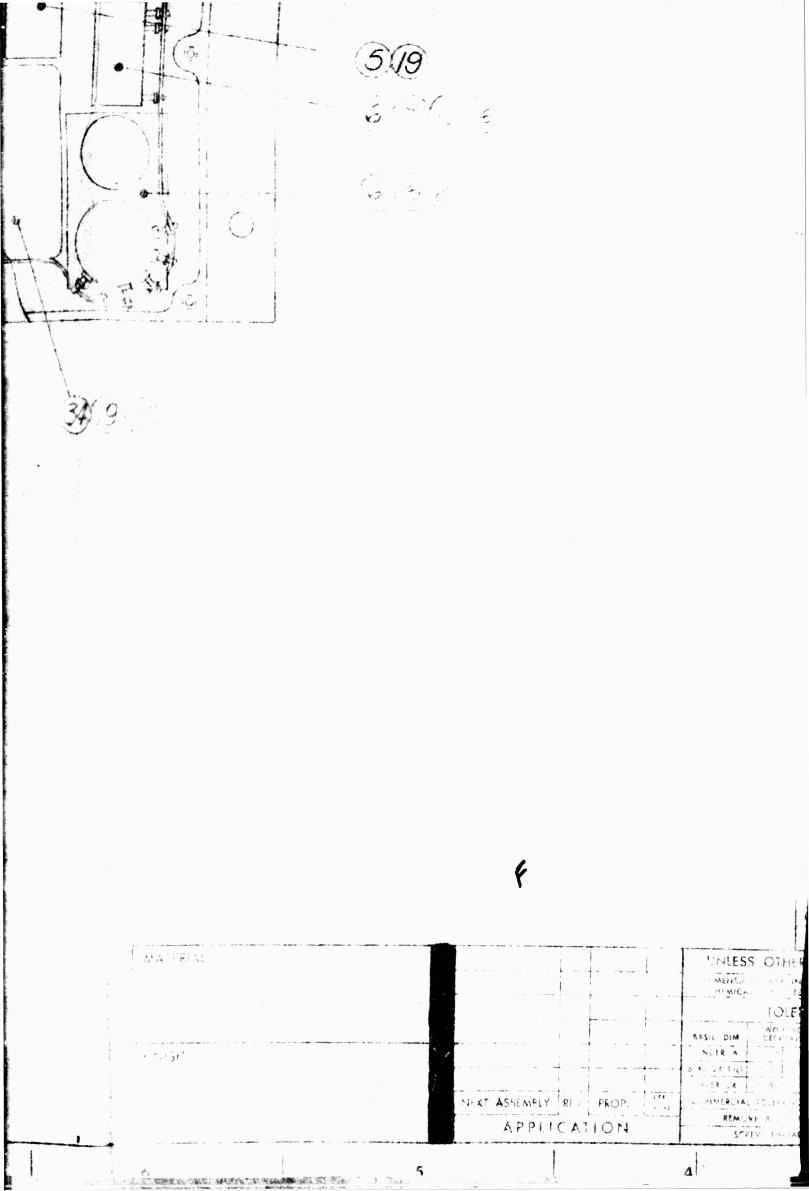


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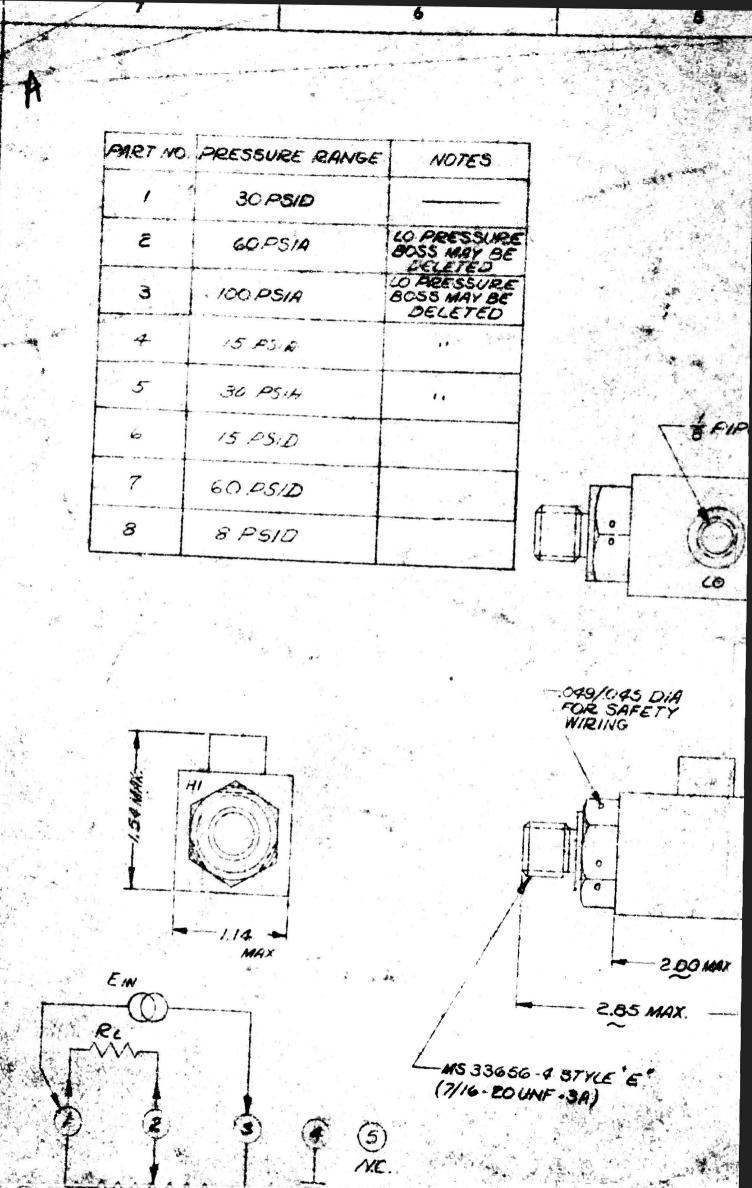
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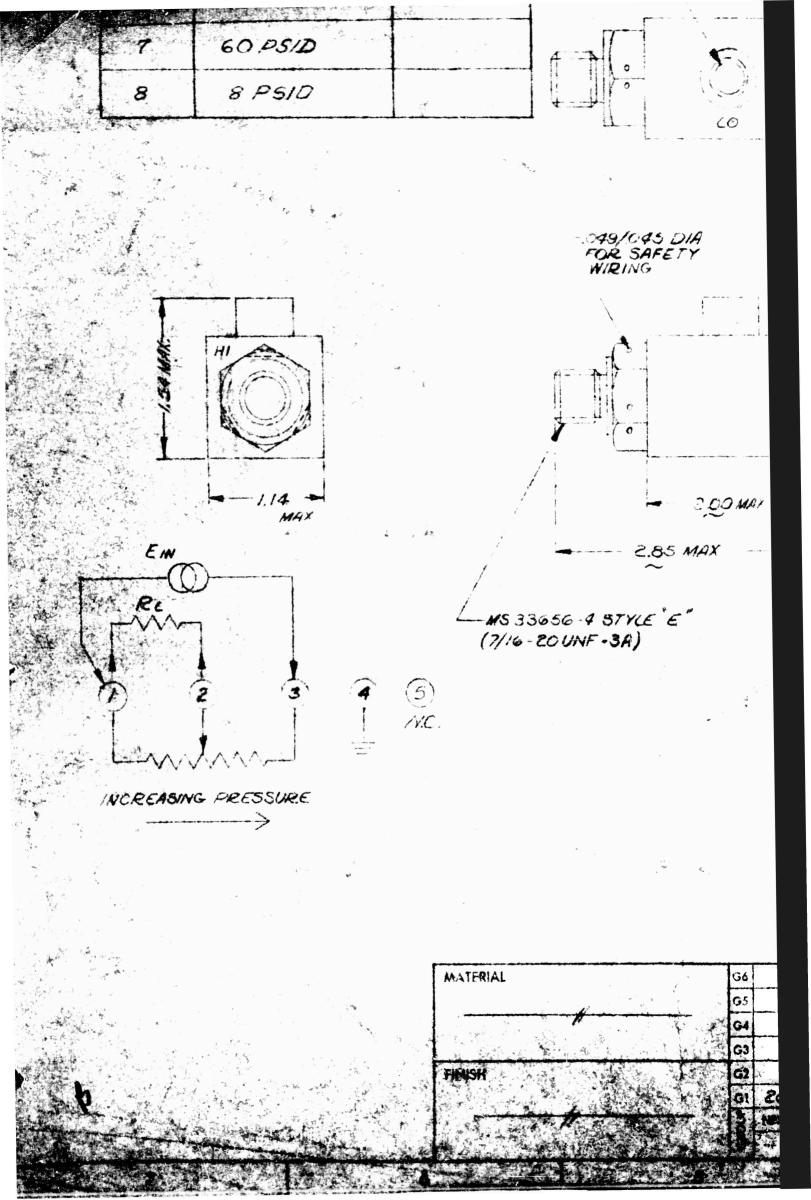
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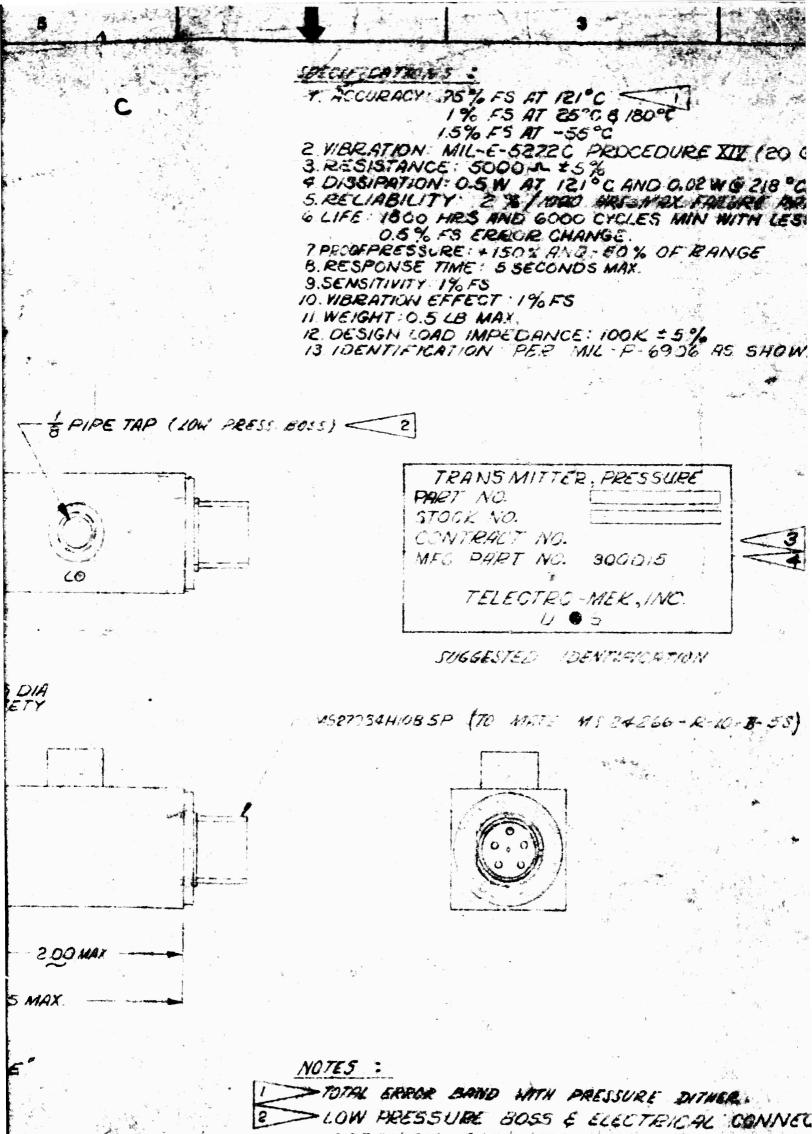
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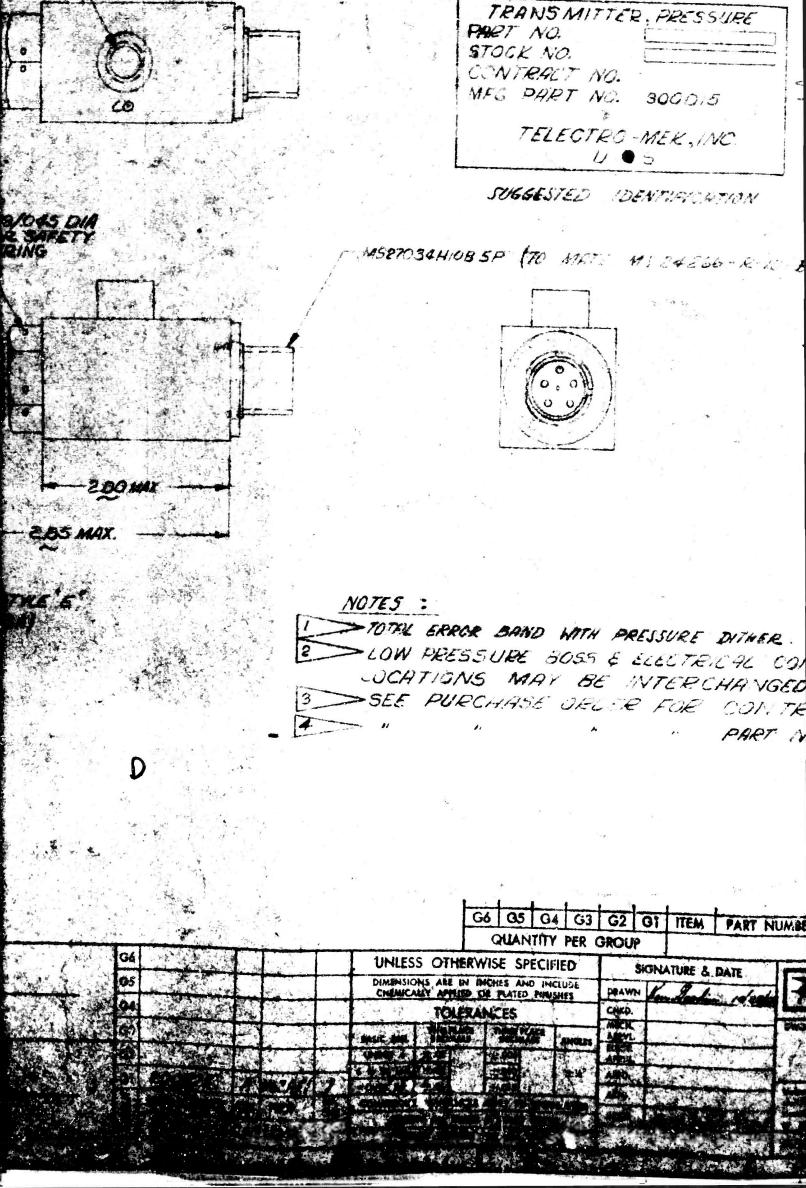


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SEE PURCHASE ORDER FOR CONTRACT



AT 121°C AT 25°C & 180°C

AT -55°C

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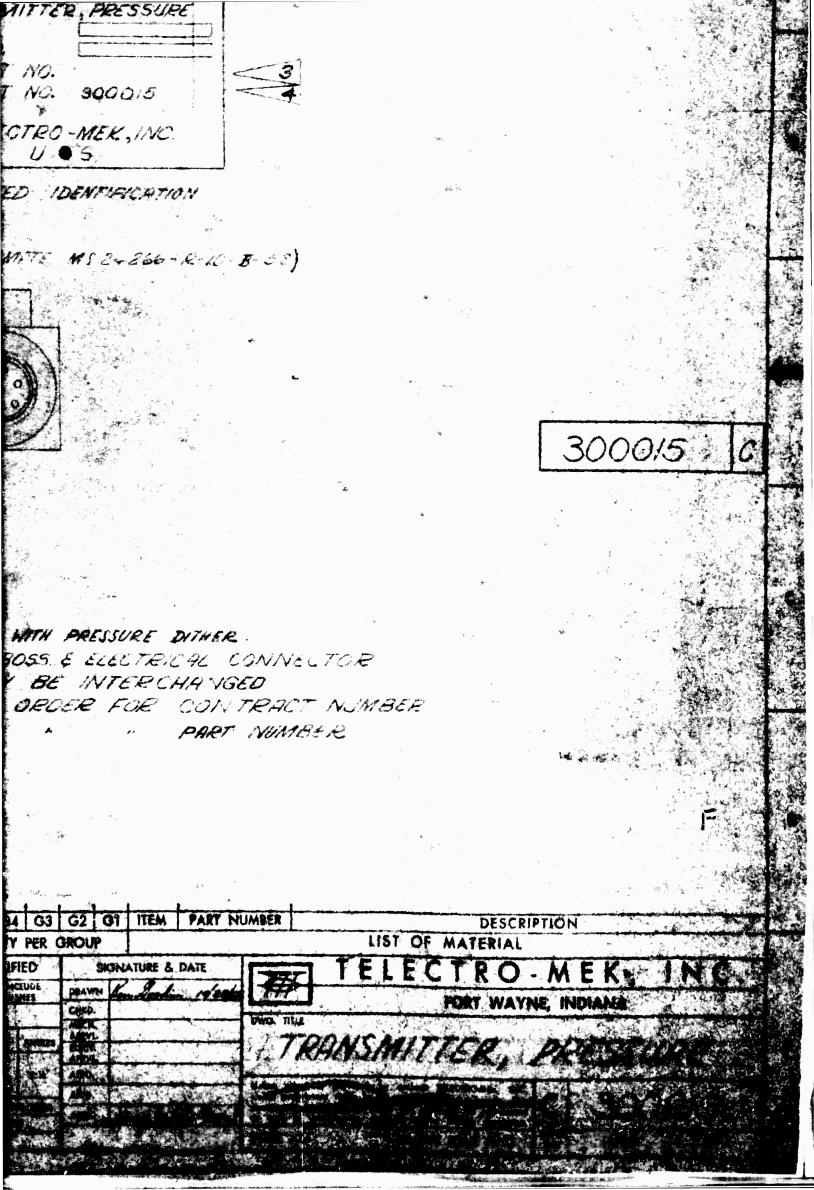
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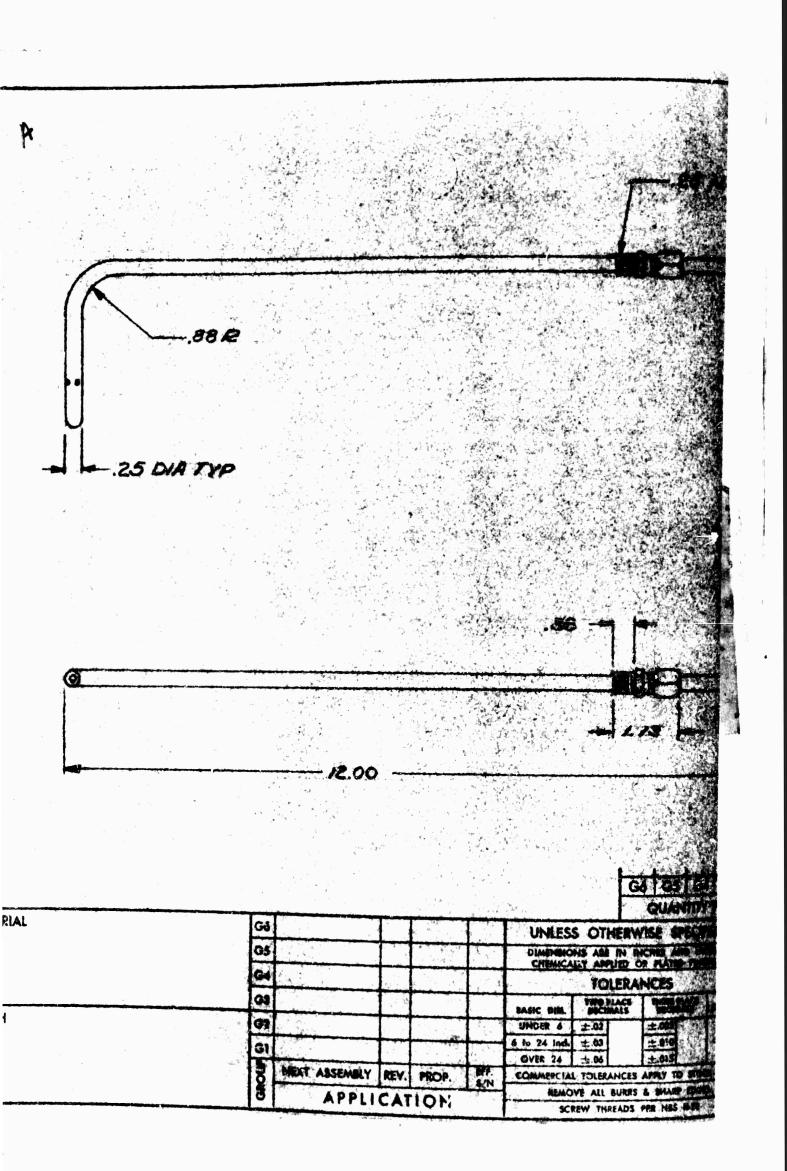
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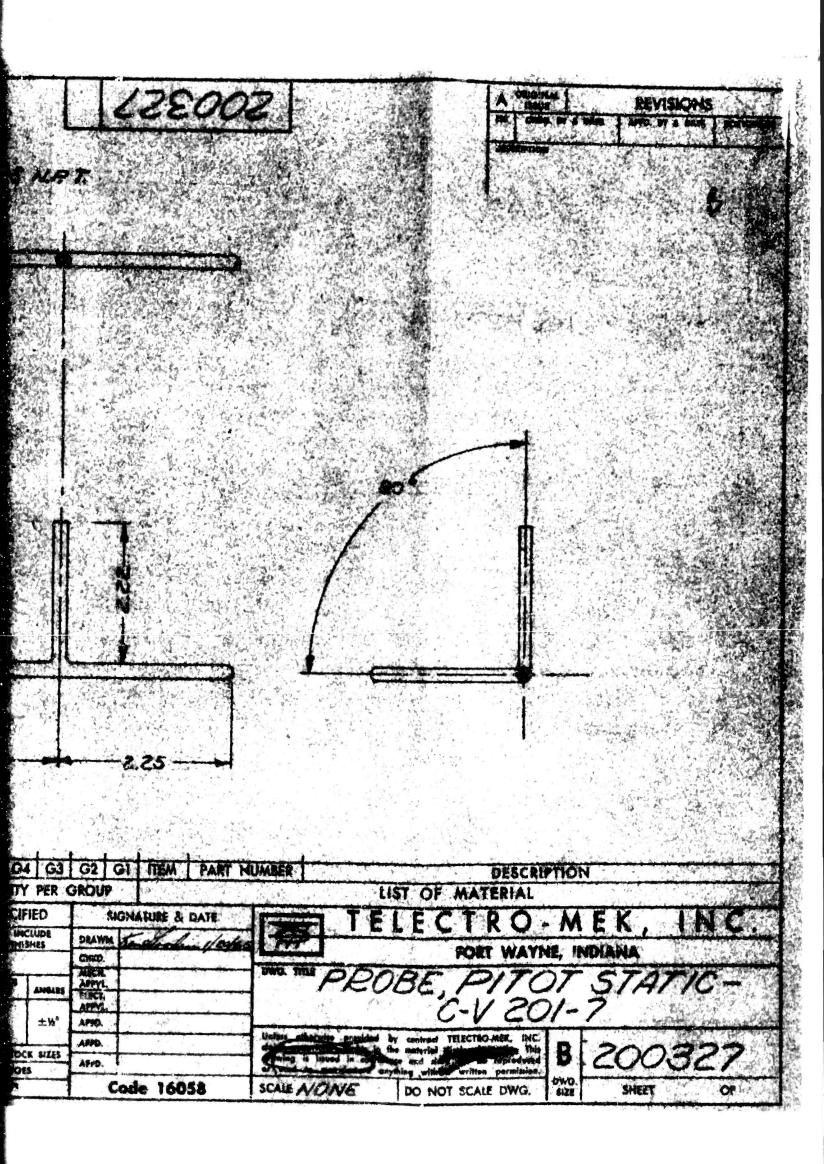
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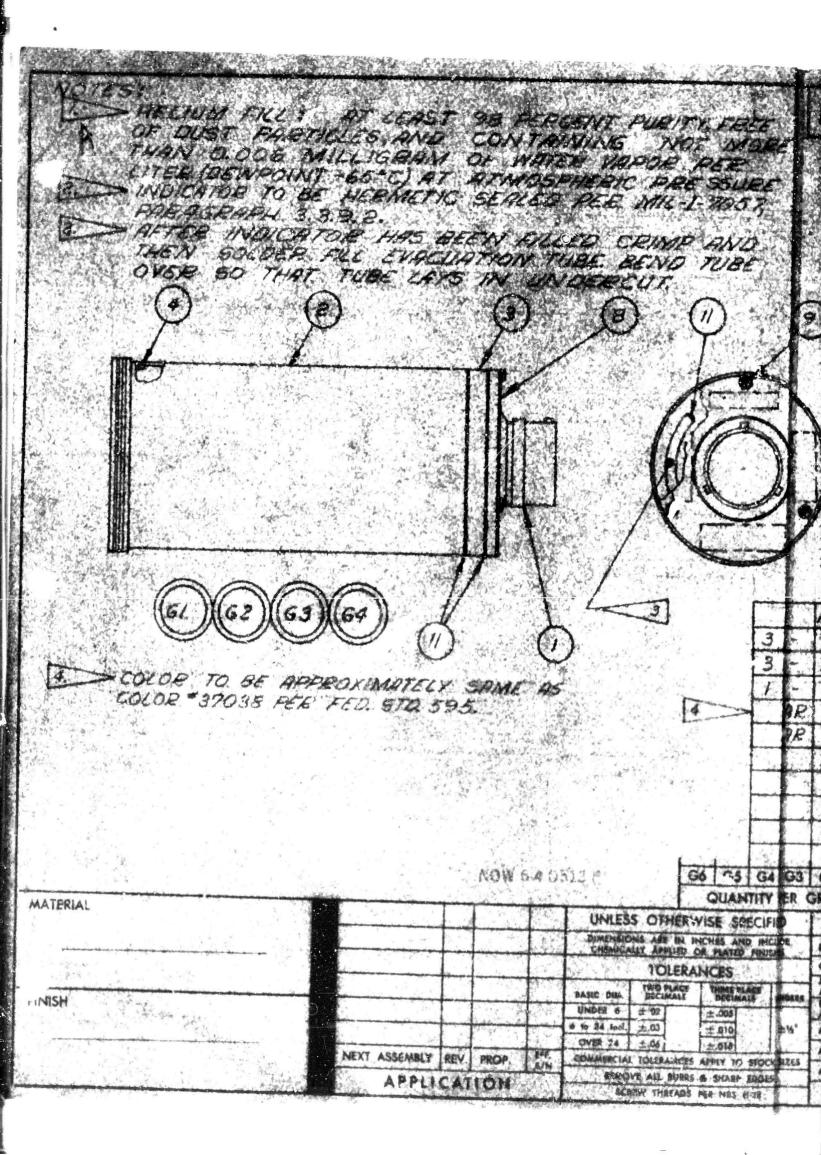
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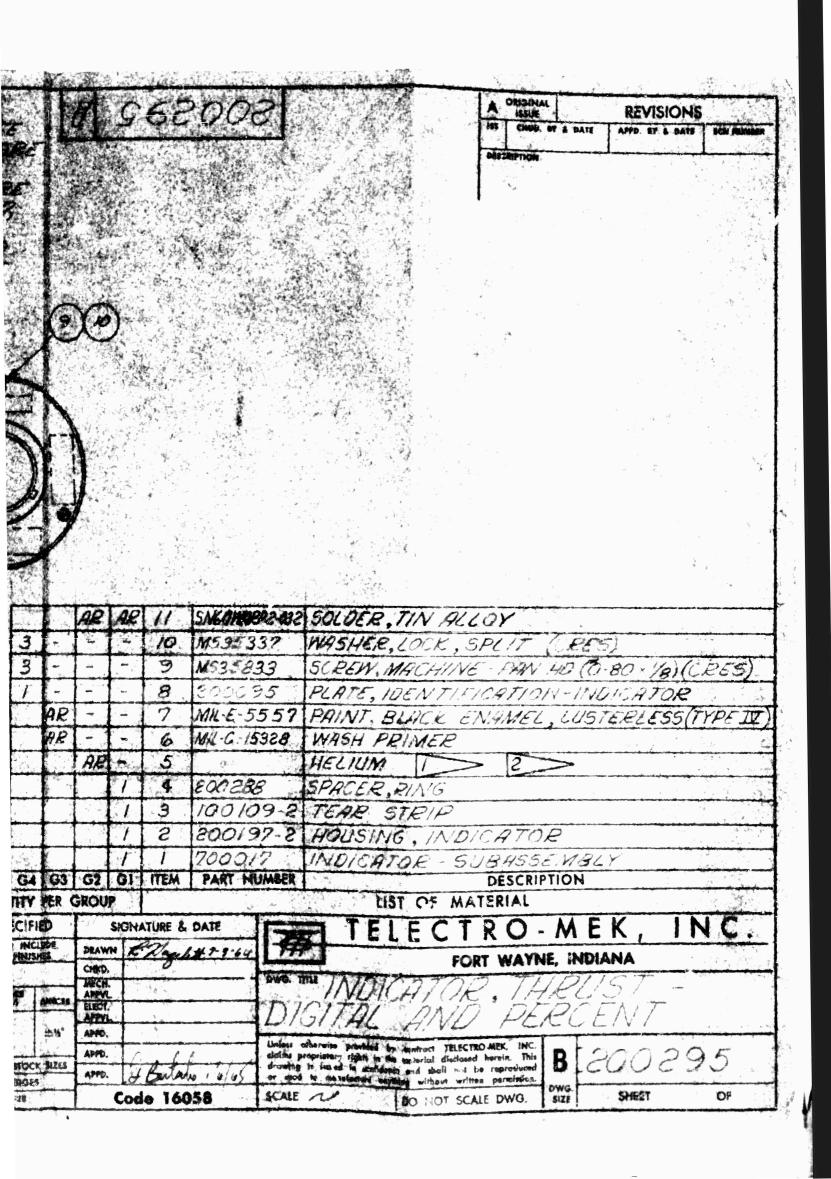
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FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

2.0 INDIVIDUAL AND QUALIFICATION TEST DATA ON TME-303 SERIAL NO. 1
AND SERIAL NO. 2

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

APPENDIX II

This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

Quantity	Drawing	<u>Title</u>
1	P1264	Individual Test Transmitter Serial No. l
1		Calibration Data Card Serial No. 1
1	P1264	Individual Test Transmitter Serial No. 2
1		Calibration Data Card Serial No. 2
1	Pl 264	Individual Test Transmitter Serial No. 3
1	•	Calibration Data Card Serial No. 3
1	P1264	Individual Test Transmitter Serial No. 4
1		Calibration Data Card Serial No. 4
1	P1264	Individual Test Transmitter Serial No. 5
1		Calibration Data Card Serial No. 5
1	Pl 264	Individual Test Transmitter Serial No. 6
1		Calibration Data Card Serial No. 6
l	P1264	Individual Test Transmitter Serial No. 7
1		Calibration Data Card Serial No. 7
1	P1264	Individual Test Transmitter Serial No. 8
1		Calibration Data Card Serial No. 8
l	P1264	Individual Test Transmitter Serial No. 9
l		Calibration Data Card Serial No. 9
1	Pl264	Individual Test Transmitter Serial No. 10
1		Calibration Data Card Serial No. 10
1	Pl264	Individual Test TME-303 Gross Thrust Computer Serial No. 1
ı	P1264	Individual Test TME-303 Gross Thrust Computer Serial No. 2
l	Pl264	Individual Test TME-303 Ram Drag Computer Serial No. 1
1	Pl264	Individual Test TME-303 Ram Drag Computer Serial No. 2
1	P1263	Individual Test TME-303 Indicator Serial No. 1
l	Pl 26 3	Individual Test TME-303 Indicator Serial No. 2

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

APPENDIX II (cont.)

Quantity	Drawing	<u>Title</u>
1	P	Individual Test - TME-303 Probe Assembly Serial No. 1
1	P	Individual Test - TME-303 Probe Assembly Serial No. 2
1	P1264	Individual Test - TME-303 System Serial No. 1
1	P1223	Test Record A3D Net Thrust System Serial No. l
1		System Accuracy Tests Gross TME-303 Serial No. 1
1		System Accuracy Tests Net TME-303 Serial No. 1
1		System Accuracy Tests Percent TME-303 Serial No. 1
1	P1264	Individual Test TME-303 System Serial No. 2
1	P1223	Test Record A3D Net Thrust System Serial No. 2
1		System Accuracy Tests Gross TME-303 Serial No. 2
1	•	System Accuracy Tests Net TME-303 Serial No. 2
1		System Accuracy Tests Percent TME-303 Serial No. 2

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.
2700 Nutimen Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST	NSMITTER.	
	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination		e e
2.	Scale and Friction Error	✓	
3.	Position Error	. 🗸	
4.	Response Time	√	
5.	Sensitivity		•
Tes	t Specification - Per Proposa	1 P62NO5-3 at Room	Temperature
	Part No. 300015 - 2	Serial No.	1
Dat	e 11.25.64	•	
Tes	ter Doshing	4	
Acc	ept Reject		
Ins	pector Wullas		

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FORT WAYNE, INDIANA SO. DEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

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1.	Physical Examination		
2.	Scale and Friction Error	✓	
3.	Position Error	✓	•
4.	Response Time	✓	
5.	Sensitivity	✓	
Test	t Specification - Per Proposal	P62NO5-3 at Room	Temperature
	Part No. 300015 - 2	Serial No.	2
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Ins	pector (Xulta)		

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FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nutiman Avenue, Fort Wayne, Indiana 46804

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TEST	CHECK O.K.	COMMENTS
1. Physical Examination		x 4 /
2. Scale and Friction Error		
3. Position Error		
4. Response Time		
5. Sensitivity		
Test Specification - Per Propos	al P62NO5-3 at Room	Temperature
Part No. 300015 - 4	Serial No	3
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Tester Oschoo		
Accept		
Inspector Mulan	•	

TRANSMITTER PART NO. 300015-4 SERIAL NO. 3

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FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

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	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination		
2.	Scale and Friction Error	✓	
3.	Position Error	✓	
4.	Response Time	<i>J</i>	
5.	Sensitivity	/	
Tes	et Specification - Per Proposa	1 P62N05-3 at Room	Temperature
	Part No. 300015 - 4	Serial No.	4
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	ept Reject		
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TRANSMITTER PART NO. 300015-4

SERIAL NO. 4

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FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y

2700 Nutimen Avenue, Fort Wayne, Indiana 46804

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FORT WAYNE. INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttmen Avenue, Fort Wayne, Indiana 46804

·	INDIVIDUAL TEST IKANS	MITTER.	
•	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination	i [‡] . ✓	•
2.	Scale and Friction Error		
3.	Position Error		
4.	Response Time		
5.	Sensitivity		
Tes	t Specification - Per Proposal	. P62NO5-3 at Room	Temperature
	Part No. 300015 - 6	Serial No.	6
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FORT WAYNE, INC 'NA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST TRANSA	MITTER	
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1.	Physical Examination		
2.	Scale and Friction Error	·	
3.	Position Error		
4.	Response Time		
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FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttmen Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST TRAI	SMITTER	
:	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination	·	
2.	Scale and Friction Error	√	
3.	Position Error		
4.	Response Time	<i>J</i>	
5.	Sensitivity		
Tes	t Specification - Per Proposal	L P62NO5-3 at Room	Temperature
4	Part No. 300015 - 5	Serial No.	8
Dat	e 11·25-64		
Tes	ter Roshop —		
Acc	ept Reject		

TRANSMITTER PART NO. 300015-5

SERIAL NO. 8

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FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nutimen Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER TEST CHECK O.K. COMMENTS Physical Examination Scale and Friction Error Position Error Response Time Sensitivity Test Specification - Per Proposal P62NO5-3 at Room Temperature Part No. 300015 - 8 Serial No. Date 11.25.64 Tester Rochaz Accept leject Inspector

TRANSMITTER PART NO. 300015-8

SERIAL NO. 9

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	TEST		СНЕ	CK O.K.	COMMENTS
1.	Physical Examination		1		
2.	Scale and Friction Error		#	4	
3.	Position Error	•	• • • • • • • • • • • • • • • • • • • •	1	
4.	Response Time	:		✓	
5.	Sensitivity		<u>:</u>	/	
•			g fr		: 1
Tes	t Specification - Per Pro	posal	P62N05-3	at Room	Temperature
	Part No. 300015- 8		Serial N	io	10
Dat	e 11.25.64		,		•
Tes	ter Ayshne				•
Acc	ept / /Reject				
Ins	pector	•	•.	•	

TRANSMITTER PART NO. 300015-8 SERIAL NO. 10

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į	2.7.	337	337	342	337		476	307	342 502	337 494
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FORT WAYNE, INDIANA SO. BEIND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST THE - 303. GROSS THRUST COMPUTER.

TEST "	CHECK O.K.	COMMENTS
1. Physical Examination		•
2. Scale and Friction Error	✓ · · · · · · · · · · · · · · · · · · ·	
3. Position Error		
4. Response Time	· /	
5. Sensitivity	✓ ✓	
Test Specification - Per Proposi		
Date 25 NOV 1964	a ·	
Tester Oship		
Accept Reject		
Inspector		,

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TME-303 CROSS THRUST COMPUTER

TEST
CHECK O.K. COMMENTS

1. Physical Examination
2. Scale and Friction Error
3. Position Error
4. Response Time
5. Sensitivity

Test Specification - Per Proposal P62N05-3 at Room Temperature
Part No. 400041-41 Serial No. 2.

Date 25 NoN 1964

Tester Parama

Accept Reject
Inspector

9700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST THE - 303 RAM DRAG COMPUTER.

	TEST	; , i · · · ·	CHECK O.K.	COMMENTS
1.	Physical Examinatio	n i i i i		
2.	Scale and Friction	Error	✓ ·	
3.	Position Error		· · · · · · · · · · · · · · · · · · ·	
4.	Response Time	•		
5.	Sensitivity			
Tes	St Specification - Pe	_		Temperature
Dat	e 25 NOV 1964			
Tes	ster Oshomp			•
Acc	ept Reject		,	
Ins	spector Wullan	<u>S</u>		

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG ISLAND CITY, N. Y. 2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST THE-303 RAM DRAG COMPUTER

, •	TEST	. •		•	1	CHEC	K O.K.	COM	MENTS
1.	Physical	Examinat	ion			1			
2.	Scale and	d Friction	n Erro	r					
3.	Position	Error			Mission in the second s	• • •	/ P.	* * * * * * * * * * * * * * * * * * *	
4.	Response	Time	• • •				<i>.</i>		
5.	Sensitiv	ity							•
1	• • •	v			3)				•
Te	st Specifi	cation -	Per Pr	asoqo	1 P62N	105-3	at Roo	m Tempe	rature
	Part No	. 4000	41-0	72	Seri	Lal No	•	2.	
Dat	ce 25 N	ov 196	4				- 1 - 20 - 1 - 20		1.
Te	ster RAN	house							
Acc	cept /	Re jec	t ;				•		
In	spector _	Mullo	22	· '				· . ·	

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttmen Avenue, Fort Wayne, Indiana 46804

INDICATOR. TME - 303 INDIVIDUAL TEST TEST CHECK O.K. COMMENTS Physcial Examination Scale and Friction Error Position Error Response Time Sensitivity Sealing 7. Lighting Lighting Tests t(MIL-L-25467B Test Specification - Per Proposal P62N05-3 at Room Temperature Part No. 200295 - GH Serial No. Date 25 NOV 1964 Tester Wohn Accept Inspector

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST THE -	303 INDICAT	OR
	TEST	CHECK O.K.	COMMENTS
1.	Physcial Examination	/	
2.	Scale and Friction Error	✓	
3.	Position Error	/	
4.	Response Time		
5.	Sensitivity	. /	
6.	Sealing	/	
7.	Lighting		Lighting Tests to MIL-L-25467
Tes	t Specification - Per Proposal	P62NO5-3 at Room	Temperature
	Part No. 200295-64	Serial No.	2.
Dat	e 25 NOV 1964		
Tes	ter Osshop-	•	
Acc	ept / Reject		
Ins	pector Afulton	·	

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST - TME-303 PROBE ASSEMBLY

I. TEST PROCEDUR

- 1. Seal P_t and P_s holes with masking tape
- 2. Apply 45 PSI pressure to side hole
- 3. Immerse in water to check for leaks
- 4. Apply 45 PSI pressure to end hole
- 5. Immerse in water to check for leaks

II. TEST		CHECK O.K.	COMMENTS	
· 1.	Physical Examination	/		
2.	Leakage			
	Part No. CV 20 7	Serial No		
Date 2	5 NOV 1964			
Tester R	sshing.			
Accept	Reject			
Inspecto	r			

1:

SO. BEND. INDIANA LONG ISLAND CITY, N. Y. 2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST - TME-303 PROBE ASSEMBLY

	I.	TEST	PROCED	URE
--	----	------	--------	-----

- 1. Seal P_t and P_s holes with masking tape
- Apply 45 PSI pressure to side hole
- 3. Immerse in water to check for leaks
- 4. Apply 45 PSI pressure to end hole

	5.	Immerse in water to chec	ck for leaks	
ıı.	TEST	•	CHECK O.K.	COMMENTS
	· 1.	Pnysical Examination		
	2.	Leakage		
		Part No. CV 201- 7	Serial No	2.
Date	e_ 25	5 NOV 1964		•
Tes	ter_(Isshon ,		
Acc	ept	∧ ₃Reject		

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST TIME - 3	03 SYSTEM	
	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination	1	
2.	Scale and Friction Error	/	
3.	Position Error	_	NOT APPRICABLE
4.	Response Time	✓	
5.	Sensitivity	✓ .	
Test	t Specification - Per Proposal	P62NO5-3 at Room	Temperature
	Part No. 200297-1	Serial No.	
Date	25 NOV 1964		
Tes	ter lsshop—		÷.
Acce	ept Reject		
Ins	pector Millas		

TEST RECORD A 3D NET THRUST SYSTEM

TESTER: Posture DATE: "/25/ MOD. No. (Based on: A7=454, A2=685, 100%Fn =15000 STMILLATOR DIALS REF: PLATE No. 1155

		TO	SINDLATCK DIALS	DIALS										
	P _{t7}	P. 7	С	Pt2	P.2	DES.F	TIMD.F.	IND.F	DES.F.	IND.F MEAS.	MEAS.	DFS.	IND.	
TEST		"H 30.5	"" 30.5	H.,	"H' g 16.3	100's	100%	M VM	1.00's	1.00 %	کو پر	29u 289u		M.
1	3.85	2.095	9.81	4,905	0	47	48.0/48.5	234/2.1	47	48.7/1.5	250/250	31.5	31.5 32.93	
8	5.54	3.37	9.31	4.905	0	96	92.793.0	514/589/	46	0.2/2.20	514/2871	62.5	62.5 62.5/22.5	
M	6.CG	5.537	9.31	4.905	0	1.06	104.8/25.2	(132/5201	108	554/280	192 - 10. 53	70.5	70.5 70.56. c	
4	5.155	3.741	18.6	4.905	0	111	105.6/08.8	2010/2030	111	105.01/25.2	c 2524 ":	74.0	74.0 78.5/2.5	
S	č6	4.17	18.6	5.81.8	3.05	129.6	01.1./1211	23.32	96	13:1/25	500/100	64.0	. : 56: 0 . 193	1
9	2.04	1.508	3.64	2.525	. 644	35.4	350/250	287/309	19	13:1.20	343/248	32.	35. 243/543	n-
. 7	3.269	2.226	3.64	2.525	1.344	7.1	70.9/20.0	012/01.21	48	49.2/20.	50 6/206	.98	32.5/2.5	•
· co	3.584	2.413	3.64	2,525	1.47	80	72418.5	1440/430	55	2.5%.5.05	01.5/1301	100.5	100.5 133/152	
<u>,</u>	168.	.5557 1.428	1.428	066.	.276	91	16.9/140	293/293	9.4	1.3/9.0	87/811	43.	43. 40.9600	
10	1.419	1.023	1.428	066.	.601	32	32.0/32.0	282/288	23	23:/23.0	5 ch/52h	105.5	105.5 105% 25	
11	1.515	1.515 1.041	1.423	066.	.632	34.6	34.5/5.11.3	(3%20	25	25.725.0	464/55	114.5	114.5 1145/145	
			Allenod	· Po	*		13% or		•	27%00			347	
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ACCEPTED

Reserved

SYSTEM ACCURACY TESTS

65 250

SERIAL NO

		•			
Tast	ALTITUDE"	- G/2-78 - 74/////	CALSULATED	SCALE ERMOR	FILICTION EBROR
. /	·S.L.	480	22	+1.0	X
. 2	5.4.	92.7	. 4	- 1.3 .	×
3	∵ <i>5.</i> ∠.	104 8	スペン	-1.2	×
4	S.L	108.6	177	-24	×
5	: 5.L.	127.0	128.0	- 2.6	*
ઉ	25,000	3,5 · 0	\$ 10.00 A	4	×
7.	25,000	70.0	27	-1.0	×
8	25,000	79.0		-1.0	Y
·	45,000	16.0		0	*
10	\$5,000	32.0		٥ .	×
//	45,000	34.3	5%.3	- • 3	X
//	43,000	34.3	1 4 %.4	- · 3	0
10	45,000	320,	50.	0	0
9	45,000	16:0		0	0
8	25,000	78.5		-1.5	.5
7	2 <i>5,000</i>	70.0		-1.0	0
6	25,000	35.0	5574	4	0
Si	:s.L.	127.0	123.6	-2.6	0
Ģ	<i>5</i> .८.	108.8	111	-2:2	•2
3	S.L.	105.0	100	-1.0	•2
2	[ક.૮.	93.0		-1.0	• 3
1	isy.	48.0		+1.0	0 .
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ALLOWED

1

· DATE: 11-25 64

CHECKER:

SYSTEM ACCURACY TESTS

MET THE 303 SERIAL NO 1

	•		SERIAL	NO I	·
2157	ALTITUDE	NET THEUST	CALCULATED NET THRUST	SCALE ERROR	FRICTION. ERROR
1	SL.	45.0	47	+1.0	X
ż	S.L.	927	94	-1.3	*
3	: S.L	104 8	106	-1.2	X
4	S.L.	103.6	111	-2.4	X
5	5.4.	93.0	96	- 3.0	X
6	25,000	19.0	19	0	×
7.	25,000	49.5	48	+1.5	× J.
8	25,000	57.0	56	+1.0	*
9	45,000	9.0	9.4	- • 4	×
10	45,000	23.0	23	0 .	×
11	45,000	25.2	25	+ .2	X
. //	45,000	25.0	25	0 .	•2
10	45,000 .	23.0 ,	23	0	0
9	45,000	9.0	<i>3.4</i>	- • 4	.0.
8	25,000	56.5	్ రత్	+ • 5	.5
7	25,000	49.0	48.	+1.0	.5
٤ .	25,000	190	19	0	0
ؿ	S.L.	92.5	96	-3.5	.5
a	5.2.	103.8	111	-2.2	.2
3	S.L.	105.0	106	-1.0	.2
3	S. L. ·	98.0	94	-1.0	•3
1	S.L.	43.0	47	+1.0	0
					+

ALLOWED \$4% 012 = 1.0

... DATE: 11-25- 64

CHECKEL!

SYSTEM ACCURACY TESTS

FEEGENT

TME - 302'

LIST	ALTITUDE"	% THUST	CALCULATED	SCALE ERKOR	FRICTION	
- /	· . S.L.	32.0	27.5	+ .5	, X	
2	: S.L	62.5	62.5	0 :	×	
3	: S.L	70.5	70.5	0	×	
4	S.L.	73.5	74.0	5	, *	
		62.0	64.0	-2.0	 	
6			٥	γ.		
7	25,000	MECONINS THE CONTROL OF THE PROPERTY OF THE PR				
පි .	25,000	103.0	120.5	+ 2:5	×	
9	45,000	40.0	48	-3.0	*	
10	45,000	105.5	105.5	0 .	*	
11	45,000	114.5	114.5	0	×	
	45,000	114.5	114.5	0	0	
10	45,000	105.5 %	105.5	0	0	
9	45,000	40.0	ψ ³	-3.0	.0	
ô	25,000	103.0	100. 5	- 2.5	٥	
7	25,000	870	Ö 4.	+10	.5	
દ	25,000 34.0		25,000 34.0	94	0	0 ."
5	5.4.	62.0	64.Q	-2.0	0	
4	5.८.	73.5	74.0	5		
نخ	5.4.	70.5	70.5	0	6	
2	5.4.	62.5	62.5	0	, 0	
/	S.L.	32.0	8/.5	+ . 5	. 0	
	ALLOWED	± 12				

ALLOWED

工作

DATE: 11-25 64

CHECKER (1)

FORT WAYNE, INDIANA LO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST TIME	- 303 SYST	EIM	
	TEST	CHECK O.	K. COMMENTS	
1.	Physical Examination	/		
2.	Scale and Friction Error	1		
3.	Position Error	-	NOT APPLICAL	2h
4.	Response Time	/	• .	
5.	Sensitivity	/		
Tes	t Specification - Per Proposa	1 P62NO5-3 at R	oom Temperature	•
	Part No. 200297-1	Serial No.	2	
Dat	e 25 NOV 1964		· · · · · · · · · · · · · · · · · · ·	
Tes	ter Roshop			٠
Acc	ept Reject			
Ins	pector Willes			

:

KALSAS JEDNIJ, DAN GOV GROCHER JERA

REF: PLACE No. 1135

(Based on: A7=464, A2=685, 100%Fn =15000 SIMULATOR DIALS

MOD. No: 303

SER. No:

DATE: "/s 5

:		11.	10	•	©	7	0	G	4	W	N	-	TEST
•		1.515	1.419	.891	3.584	3.269	2.04	6.85	6.155	6.06	5.54	ن8.3	ر المراد المراد المراد المراد
•	. ()	1.041	1.023	5557	2.413	2.226	1.308	4.17	3.741	\$.	3.57	2.095	P 7 "H 7 "H 7
	Allowed	1.428	1.428	1.428	3.64	3.64	3.64	9.81	9.81	9.31	i.31	9.81	Pa "H" 30.5
	edi	.990	.990	.990	2.525	2.525	2.525	5.813	4.905	4.905	4.905	4.905	Pt2 "H 61
		.632	.601	.276	1.47	1.344	.644	,3.05	0		0	0	PA2 "H. 16.3
		34.6	32	16	80	71	35.4	129.6	111	105	. 94	47	DES.F g 100's
	13% or	34.5 600/600	32.2/32.2 565/565	16416.0	78.8/78.5	70/10.5	35.9/34.9	127/127	102. flog. 5 1930 no	S.461/10.	92.5/93.0	47.5/42.0	IND.F
•		609/200	565/565	175/275	1389/315	1235/1240	40%/26%	2270/22.	1930,120	1835/1860	1000/1640	2/823	IND.F MV g
		25	23	9.4	56	48	19	96	111	106	94.	47	DES.F n 100's
	71.0 74% C	25.0/25.8 445/442	23.5/23.5 405/405	2.5/9.2 168/163	, 575/572 1010/1002	45.5/48.5 \$31/8.27	10.0/10.11 223/2.18	35.5/93.4 135/2.0	108.5/108.5 1920/1920	104/1045 1835/501	92.5/93.0 1100/1640	47.5/48.0 818/82.	IND.F MEAS.
		244/5417	405/405	168/163	1010/1002	23/427	87.5/2.28	635/0	1,020/1920	1750	1500/1640	8/2/82:	
	• .	114.5	105.5	43.	100.5	8r.	34.	€4.0	74.0	70.5	62.5	31.5	DES. IND. Fn % % Fn % ?
	84.	114.5 116/15.5	105.5 107/1065	43. 41.5/42.5	100.5 102/103	86. 850/525	34. 34/245	64.0 65.0/13.0 "	74.0 73.0/3.0	70.5 72/25	62.5 62.7.5	31.5 31.5/21.5	
	. : 1	,			: •			. si					OK

ACCEPTED REJECTED

TME 303

STAINL NO 2

LIST	ALTITUDE	. GVL 777 1	CALSULATED	SCALE ERROR	F.CICTION ERROR
1	5.4.	1176	***	+.5	X
2	5.4.	92.5		- 1.5	×
3	: S.L.	104.0	; /···	-2.0	*
ý,	S.L.	108.5		-2.5	*
S	:5.4.	127.0	in the second	-2.6	×
G	26,000 ව	35.0		4	×
7	88,000	70.0	:	-1.0	*
క	20,000	78.8		-1.2	*
9	45,000	16.0		0	*
10	<i>34,000</i>	32.2	<u>52</u>	+ .2 .	*
//	45,000	34.5	Syl.S	/	X
//	40,00 0	34.5	. 04.6	1	0
10	45,000	32.2	i sz	+ · 2	0
9	୧୫,୯୦୦	.16.0		0	
. 8	\$6,000	78.5		- 1.5	• 3.
7	125,000	70.5		5	.5:
6	25,000	34.9		-·5	.1
S	. S.L.	127	189.6	-2.6	0
4	S.C.	108-5	///	-2.5	0
<u> </u>	3.4.	104.5	Z	-1.5	.5
2	.5.4.	93.0		-1.0	: •5
/		48.0	1	+1.0	.5 .

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· DATE: 11-25-64

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•			•	V. O	
LIST	ALTITUDE	NET THILDET	CALCULATED MCT THISUST	ERROR	FRICTION. EKROR
. /	. S.L.	47.5	97	+ .5	X
2	s.L	92.5	94	-1.5	. *
3	. <i>5.</i> L	104	106	-2.0	× ×
4	S.L.	:00.5	111	-2.5	, ×
5	5.L.	93.5	96	-2.5	× ··· -
6	25,000	19.0	19	0	*
7	25,000	49.5	43	at 1.5	×
8	25,000	. 57.5	56	+1.5	*
9	45,000	9.5	5.4	+ .1	×
10	45,000	23.5	; 23	+.5.	*
//	45,000	25.8	25	+ .8	*
// .	45,000	25-5	1	+.5	•3
10	45,000	23.5 :	20	7.5	0
9	45,000	9.2	, J.G.	2	.3
8	25,000	57.2	56	+1.2	-3
7	25,000	49.5	98.	+ 1.5	٥. ٠
ؿ	25,000	19.4	19	+ .4	•4
5	5.4.	93.4	¹ 96 .	- 2.6	.1
4	5.2.	108:5	11 11 11 11 11 11 11 11 11 11 11 11 11	- 2.5	0
<i></i>	S.Z.	104.5	106	-1.5	.5
E	5.2.	43.0	94	-1.0	.5
/	S.L.	45.0	. 47	+ 1.0	.5
	<u> </u>				

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DATE: 11-25.64

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CHECKEL

TME - 30%

SERIAL	NO	2
OF WILLY	.,,	~

	•				
4157	ALTITUDE	× 17.00 × 17	CALCULATED 1/2/1/27	SCALE ERKOR	FRICTION ERROR
/	· . 5.L.	31.5	U/.5	٥	×
Z	. : S.L	62.5	[02. 5]	0.	X
3	: S.L	70.5	74.5	0	× .
4	S.L.	73.0	.74.0	-1.0	*
5	5.L. ·	63.0	6¢.0	-1.0	*
6	25,000	3+0	34	0	
7	25,000	88.0	Já s	+2.0	×
පි	25,000	/03·0	120.5	+2.5	X
. 9	45,000	43.5	43	+.5	×
10	45,000	107.0	105.5	+1.5.	*
11	45,000	116.0	119.5	+ 1.5	×
//	45,000	115.5	114.5	+1.0	.5
10	45,200	106.50	1,75.5	+1.0	.5
ક	45,000	43.5	. 4	+ .5	. 0
Ö	25,000	1050	100.5	+ 2.5	0.
7	25,000	\$ 7.5°	SG.	+1.5	.5
ب	25,000	.34.5		+.5	.5
ئ	S.L.	63.0	64.Q ·	-1.0	0
4	5.2.	73.0	74.0	-1.0	0
ن ن	S.Z.	70.5	70.5	٥	ð
	5. ८. ·	62.5	62.5	0	0
1	S.C.	31.5	ఆ/.ర	٥	. 0

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... DATE: 11-25-64

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FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 45804

3.0 REPORT OF ENVIRONMENTAL TESTS AND LIFE TESTS ON "UNIVERSAL TYPE NET THRUST COMPUTER" MODEL TME-303 SERIAL NO. 3,

SYSTEMS NO. 200297-1A

File 800-M62NO5-TR-1

Page No. 12

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

3.1	Temperature	and	Temperature	Altituda Tests

la.

- 3.1.1 Temperature and Temperature/Altitude Tests were conducted in accordance with MIL-E-5272C as follows:
 - (a) Low Temperature Procedure I @ -54°C
 - (b) Temperature/Altitude Procedure I
 - (c) High Temperature Procedure II @ +100°C
- 3.1.2 Model No. TME-303 Serial No. 3
- 3.1.3 Equipment Used
 - (a) Bowser Climatic Chamber Model 36-100 VH Stock No. 10278
- 3.1.4 Procedures The range of tests and procedures followed were as specified in MIL-E-5272C. At each environment the specimen was functionally checked for accuracy.

The environmental charts and the records of the checks taken at each step of the environmental tests are attached herewith.

3.1.5 Date of Temperature and Temperature/Altitude Tests - February 3, 1965 to February 9, 1965.

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3.2 <u>Vibration Tests</u>

- 3.2.1 Vibration Tests were completed in accordance with MIL-E-5009A procedure 4-3-3-4-1 except that the duration of vibration was limited to four hours in each of three planes instead of 12 hours in each of three planes.
- 3.2.2 Model No. TME-303 Serial No. 3
- 3.2.3 Equipment used
 - (a) Calidyne Shaker Model 177A Serial No. 50
 - (b) Accelerometer Nos.
 - (1) R-272
 - (2) BA-44
 - (3) R-273
- 3.2.4 Range of Tests
 - (a) Four hours in each of three planes
 - (b) Sweep on Calidyne 5 to 150 cps
 - (c) Acceleration 5 Gs
 - (d) Sweep Rate 5 to 150 to 5 = 30 mins.
- 3.2.5 Accelerometer Calibration
 - (a) R-272 190-35MV/5Gs
 - (b) BA-44 164-5MV/5Gs
 - (c) R-273 190-35MV/5Gs
- 3.2.6 Procedures Specimens were vibrated in each of three planes from 5 150 5 cps. There were no resonances at any of the above frequencies, therefore, the specimens were vibrated for four hours in each plane, as shown in the attached drawings, at 17.5 \$ps. A functional check was made during the vibrating cycle in plane 3.

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- 3.2.7 Dates Vibration started on February 9, 1965, and completed on February 12, 1965.
- 3.2.8 Mounting of the computers during the Vibration Testing is shown in Drawings, Figures 1, 2 and 3, for each plane of vibration.

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3.3 Impact Tests

- 3.3.1 Specimens were subjected to impact shocks in accordance with MIL-F-5009A paragraph 4-3-3-3-7.
- 3.3.2 Model No. TME-303 Serial 3.
- 3.3.3 Equipment used
 - (a) Accelerometer Serial No. 2550
 - (b) Avco Shock Machine Model SM030
 - (c) Shock Pad 901451-28
 - (d) Added table weight 200 lbs
- 3.3.4 Equipment Settings
 - (a) Accelerator Sensitivity in Peak MV/Peak g 41.5
 - (b) Through Cathode follower MV/ Peak g 39.01
 - (c) Scope Sweep time 2 MS per CM
 - (d) Scope Gain 500 MV per CM
 - (e) Air Pressure 50 PSI
 - (f) Drop Height 12 in
 - (g) Air Stop build up 0
 - (h) Peak "G"s 30
 - (i) Duration 12 MS
- 3.3.5 Procedures Impact equipment was set to read 12 MS.

 Specimens were then subjected to 2 shocks in each of six directions, total 12 shocks of 30 g's with a duration of 12MS.

 Specimens were then functionally checked and the readings recorded in attached Plate 1223.

Date of Impact Tests - February 13, 1965.

File 800-M62NO5-Tk-1

Page No. 16

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG ISLAND CITY, N. Y.

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3.4 Life Testing

- 3.4.1 The specimen was subjected to a minimum of 500 hrs Life
 Testing to prove compliance with the predicted mean time between failure time specified in Proposal P62NO5-3.
- 3.4.2 Model No. TME-303 Serial No. 3
- 3.4.3 Test Procedures The complete system was operated for 21 hours per day in the following cycle
 - (a) Operational every 4 hours
 - (b) Non-operational periods of $\frac{1}{2}$ hour after each operational period of four hours.

A time switch activated the vacuum pump to place regulated negative pressure on the transducers to simulate altitude. The timer cycled every 14 minutes during the operating period placing the following pressures on the system

- (a) Sea level pressure 12 mins
- (b) 45,000 ft pressure 2 mins

3.4.4 Test Periods

The Life testing commenced at 9:00 AM on 20 January 1965 and the system operated continually until 5:00 PM on 2 February 1965.

Life testing again commenced at 8:00 PM on the 16th of February and the system operated continuously until 4:00 PM on 27 February 1965.

3.4.5 Total Test Time - The System operated for a period of 519 hours plus the time when the computers and indicators were

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operating during environmental testing, which added an extra 17 hours.

Total operating time was therefore

536 hours

The break in Life testing between 2 February 1965 and 16 February 1965 was necessary in order to perform the Environmental Testing as the Environmental Test Equipment was only available during this period.

- 3.4.6 Failures There were no failures during Life or Environmental testing.
- 3.4.7 Data Recording The accuracy of the equipment was checked prior to Life Tes ing and then immediately after Life Testing. The test records of the checks are attached herewith on Plates 1223.

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VENERDIX III

This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

Quantity	Drawing	<u>Title</u>
1		ITT Federal Laboratories, Test Laboratory Procedure Report
1	P1264	Individual Test Transmitter Serial No. 9
1		System Accuracy Tests Transmitter Serial No. 9
1	Pl264	Individual Test Transmitter Serial No. 10
1		System Accuracy Tests Transmitter Serial No. 10
1	P1264	Individual Test Transmitter Serial No. 6
1		System Accuracy Tests Transmitter Serial No. 6
1	P1264	Individual Test Transmitter Serial No. 1
1		System Accuracy Tests Transmitter Serial No. 1
1	P1264	Individual Test Transmitter Serial No. 2
1		System Accuracy Tests Transmitter Serial No. 2
1	P1264	Individual Test TME-303 Ram Drag Computer Serial No. 3
1	P1264	Individual Test TME-303 Gross Thrust Computer Serial No. 3
1	P1263	Individual Test TME-303 Indicator Serial No. 3
1		Individual Test - TME-303 Probe Assembly Serial No. 3
1	P1264	Individual Test TME-303 System Serial No. 3
1		System Accuracy Tests Gross .
1		System Accuracy Tests Net
1		System Accuracy Tests Percent
1	1223	Test Record A3D Net Thrust System Sertal No. 3 Low Temperature
. 1		Low Comperature Test Chart

TELECTRU-1.1K, INC

FORT WAYNE, INDIANA SO, SEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuitman Avenue, Fort Wayne, indiana 40804

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APPENDIM III (cont.)

Quantity	Drawing	<u>Title</u>
. 1	P1223	Test Record A3D Net Thrust System Serial No. 3 Low Temperature
3		Temperature/Altitude Chart
12	Pl223	Test Record ASD Net Thrust System Serial No. 3 Temperature/Altitude
2		High Temperature Test Chart
2	P1223	Test Record ASD Net Thrust System Serial No. 3 High Temperature
1	Fig. 1	Vibration Test Mounting Plane 1
1 .	Fig. 2	Vibration Test Mounting Plane 2
1	Fig. 3	Vibration Test Mounting Plane 3
1	P1223	Test Lacord ASD Net Thrust System Serial No. 3 Vibration Test
1	P1223	Test Record ASD Net Thrust System Serial Mo. S Empact Test
2	P1223	Test Record ASD Not Thrust System Serial No. S Life Testing

ITT Federal Laboratories Ft. Wayne, Indiana

Test Laboratory Procedure Report

No. 1000

Date: 2-22-65

1.0 Description

- One (1) computer (Gross Thrust) Serial number 151 and one (1) computer (Ram Drag) Serial number 251 designed and developed by Telectro-Mek, Inc. were submitted for environmental tests.
- 1.2 The dimensions of the computers are 5-1/2 x 5-3/16 x 2-1/4 inches and weigh approximately 10 pounds each.

2.0 Procedure

- 2.1 The two computers were subjected to the following environmental tests in accordance with the applicable specifications, "wan exceptions as noted herein. Both units were tested concurrently through each environment.
 - 2.1.1 Low Temperature Operation MIL-E-5272C. Procedure 1 @ -54 degrees C.
 - 2.1.2 Temperature-Altitude
 MIL-E-5272C. Procedure T
 - 2.1.3 High Temperature Operation * MIL-E-5272C. Procedure II @ +100 degrees C.
 - 2.1.4 Vibration

MIL-E-5009A Procedure 4.5.3.4.1

- * Duration of vibration was limited to four hours in each of three axes instead of 12 hours in each of three axes.
- 2.1.5 Impact

MIL-E-5009A Paragraph 4.3.3.3.7

Two shocks in each of six directions, total 12 shocks of 30 g's with a duration of not less than 10 milliseconds.

5.0 Results

Test environments were conducted in accordance with applicable specifications at all times, except as noted in paragraph 2.1.4.

a constant

- 3.2 Operational tests of the computers were conducted by Telectro-Mek, Inc. personnel.
- 3.3 At the conclusion of environmental tests the computers were returned to Telectro-Mek, Inc. for further evaluation.

4.0 Notes

- 4.1 Tests were completed February 15, 1965.
- 4.2 The following equipment was used to perform the environmental tests.
 - 4.2.1 Bowser Climatic Chamber Model 36-100VH Stock No. 10278
 - 4.2.2 Thermo Electric Bridge Model 80200 Stock No. 10757
 - 4.2.3 Calidyne Shaker Model 177A Stock No. 9549
 - 4.2.4 Avco Shock Machine Model SM-030 Serial No. 1003
 - 4.2.5 Endevco Accelerometers Model Serial No. BA-44, R-272, R-273
 - 4.2.6 Endevco Cathode Follower Model 2608, Serial No. 8541, 8547, 474
 - 4.2.7 Endevco Power Supply Model 2622 Stock No. 9052
 - 4.2.8 Tektronix Oscilloscope Model 545 Stock No. 6598
 - 4.2.9 Polaroid Oscilloscope Camera Stock No. 7147
 - 4.2.10 Dumont Oscilloscopes Model 304, Stock No. 4791, 3606, 5029
 - 4.2.11 H-P V. T. V. M. Model 400H Stock No. 9559

4.3	Tests conducted by	Execute Stars	and	May	moore	
		Emmett Stark		Roy	Moore	

4.4 Test approved by

D. L. Carpenter, Manager Reliability

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

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	INDIVIDUAL TEST	1437.	
	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination	√	
2.	Scale and Friction Error	· 🗸	
· 3.	Position Error	✓	
	Response Time	✓	
	Sensitivity	✓	• •
Tes	t Specification - Per Proposa	al P62NO5-3 at Room	Temperature
	Part No. 300015 - 2	_ Scrial No	9
Dat	e 1-16-65		•
Tes	ter asshow		•
Acc	ept / Reject/		
Ins	spector Xcuhe Hula		

SYS/27/ 402 / 2020 75575

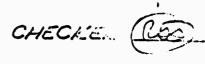
TRANSMITTER 3000 5-2 200012 9

TEST	ALTITUDE"		- 00) : 176.07 50 	SCALE SAME OF	2. 12. 1311 E/21.271.2
1	29.04 HG		96	-0.06	X
2	29.04	59.66	60	-0.34	×
3	29.04 .	23.94	24	-0.06	¥
3	29 04	24.06	24	+0.06	0.12
2	29.04 .	60.10	60	+ 0.10	0.44
1	29.04 .	9,6.28	96	+0.28	0.34.
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2700 Nuttman Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST TRANS	MITTER	
	TEST	GMECK O.K.	COMMENTS
<u>.</u>	Physical Examination	✓	
2.	Scale and Friction Error	✓	
3.	Position Error	✓	·
4.	Response Time	✓	
5.	Sensitivity	✓	
Tes	t Specification - Per Proposal	P62NOS-3 at Room	Temperature
	Part No. 300015-4	Serial No.	10
Date	e 1-15.65		
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SYSTEM ACCUREAGE TESTS

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1	29.48 HG	. 24.04	24	+0.04	×
2	29.48.	14.93	15	-0.07	*
3	29 43 .	5.84	6	-0.16	; ×
3	29.48	5.85	6	-0.15	0.01
2	29.48.	14.99	15 .	-0.01	0.06
1	29.48	.24 .01	24.	+ 0.01	0.03
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	INDIVIDUAL TEST ///A	ISMITTIER	
	TEST	SHIRTH O.K.	COMMENTS
ı.	Physical Examination	✓	e.
2.	Scale and Friction Error	. 🗸	
.3.	Position Error	✓	
<u> 4.</u>	Response Time	/	
5.	Sensitivity	/	
Tes	t Specification - Per Proposal		
	Part 115. 300015- 5	Serial No.	6
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rest	ALTITUDE	West of the Section o			
1	29.27 HG	48.00	48	0	X
2	29.27.	23 89	24	-0.11	×
3	29.27	11.91	12	-0.09	×
3.	29.27	11.95	12	-005	0.04
2	29.27	23 83	24	-0.17	0.06
	29.27	480	4.8	0	. 0
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FORT WAYNE, INDIANA SO LEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nutiman Avenue, Fort Wayne, Indiana 45304

	INDIVIDUAL TEST TRA	INSMITTER.	
	TEST	CHECK O.K.	COMENTAL
1.	Physical Examination	/	COMMENTS
2.	Scale and Friction Error	1	
. 3.	Position Green	/	
4	Response Time	/	
5.	Sensitivity	✓ .	
Test	Specification - Per Proposal	. P62NO5-3 at Room	Temperature
	Part No. 300015 - 6	Serial No.	1
Test	er Osshon		
Acce		.*	
Insp	ector Villa		

SYSTEM 4000 MESTS

TRANSANTTA 3000.5-6 STAINL

TEST	ALTITUDE	महर्गहरूसी . सद	GOLL CATED	50/A.S 3/21.3/2	FRICTION. ERROR
1	29.48 HG	24.00	24	0	l x
2	29.48 .	15.05	15	+0.05	*
3	29.48 "	5.93	6	-0.07	, x
3	29.48 "	6.05	. 6	+ 0.05	0.12
2	29.48 -	15.16	15	10.16	0.11
1	29.48 .	24.00	24.	0	. 0
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DATE: 1.15.65

CHECKER (TO)

FORT WAYNE, INDIANA SO, DEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nutlman Avc.iue, Fort Wayne, Indiana 45304

	INDIVIDUAL TEST TKAN	Sungar	
	TIST .	CHECK O.K.	COMMENTS
1.	Physical Examination	. 🗸	
2.	Scale and Friction Error	✓	
3.	Position Error	/	
4.	Response Time	✓	
5.	Sensitivity	✓	
Tes	t Specification - Per Proposal	. P62NO5-3 at Room	Temperature
	Part No. 300015 8	Serial No.	2
Dat	e 1.15.65		
Tes	ter loshop—		
	ept / Reject		
Ins	pector Ville		

SYSPERMENT FOR TESTS

TRANSMITTER 300015-8 STANK 2

TEST	ALTITUDE'	in the state of the	Security Conten	80/11.5	VI. UST POLY
		i Ro Lemma de come	na Falan Falan	1.473/14/0	Eli. He
1	29.04 HG	12.77	12.8	-0.03	×
2	29.04	6.26	6.14	-0.14	×
3	29.04 .	3.08	3 2	-0.12	×
3	29.04 ;	3.10	3⋅2	-0.10	0.02
2	29.04 -	6.27	6.4	-0.13	0.01
1	29.04 "	./2.77	12.8	-0.03	0
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DATE: 1-15:35

CHECKE (B)

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG SLAND CITY, N. Y.

2700 Nutiman Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST	ion and hims Co	imputer.
	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination	y v	·
2.	Scale and Friction Error	/	
3.	Position Error	/	1
4.	Response Time	✓	
5.	Sensitivity		
Test	: Specification - Per Proposal	P62NO5-3 at Room	Temperature
	Part No. 200011 - 92	Serial No.	3.
Date	- 1- 0-6t		•
Test	ter Richard	•	
Acce	ept Reject		•
Ins	pector		

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indianz 46804

Ber Comes THE SET COMESTER

(

TEST	CHECK O.K.	COMMENTS
1. Physical Examination		
2. Scale and Friction Error	√ ^	
3. Position Error	· /	
4. Response Time	V.	•
5. Sensitivity	√ .	
Test Specification - Per Proposal		
Part No. 120000 - 0	Serial No.	3
Date 1.15.65		•
Tester Andlan,		
Accept Reject Inspector		
Tushecrot.		

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST		-3K
TEST	CHECK O.K	COMMENTS
1. Physcial Examination	✓	
2. Scale and Friction Error	1	
3. Position Error	✓	* •
4. Response Time	v	
5. Sensitivity		•
6. Sealing		•
7. Lighting	√.	Lighting Te to MIL-L-25
Test Specification - Per Proposal	P62NO5-3 at R	oom Temperature
Part No. 200291	Serial No.	SERIAL 3.
Date/ \ / 0 \ C \ C		
Tester Parker	•	
Accept / Reject,		
Inspector Male		

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST - TME-303 PROBE ASSEMBLY

			-					
1.	Seal :	Pt	and	Ps	holes	with	masking	tape

- 2. Apply 45 PSI pressure to side hole
- 3. Immerse in water to check for leaks
- 4. Apply 45 PSI pressure to end hole
- 5. Immerse in water to check for leaks

II.	TEST		CHECK O.K.	COMMENTS	
	· 1.	Physical Examination			
	2.	Leakage			
		Part No. CV 201- 7	Serial No	3	

Date	11/6 × GG
Tester_	
Accept	V _{//} Reject
Inspecto	or Mar

TEST PROCEDURE

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FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

	INDIVIDUAL TEST	303 SYSTEN	
	TEST	CHECK O.K.	COMMENTS
1.	Physical Examination	✓ ·	
2.	Scale and Friction Error		
3.	Position Error	· 	NOT APPLICABLE
4.	Response Time	✓	
5.	Sensitivity	✓	
Tes	t Specification - Per Proposa	1 P62NO5-3 at Roo	m Temperature
	Part No. 200297 - 16	Serial No.	3.
Dat	e 1-15-65		•
Tes	iter Asslung -		,
Acc	ept V Reject	•	
Ins	spector (////willow)		

6/5 250

7.637	ALTITUDE	• GATE:	CALCULATED 77 MIT x 100	SCALE ERROR	FRICTION ERROR
1	S.L.	47.8	÷7	+ ^8	Х
2	5.4.	93.0		- 1.0	×
3	. S.L.	105.5	/s 1.	5.	×
4	S.L. ·	109.0	<i>3.</i>	- 2.0	*
5 ⁻	5.4.	127.0	75.C. 3.3.	- 2· 6	×
હ	25,000	35.2	333 4	2	×
7	25,000	0.05		- 1.0	×
8	25,000	79.5		5	y
9	45,000	16.1		+ · 1	*
10	45,700	32.0	:	0 '	*
. //	45,000	34.5	; .	- 1	X
11	45,000	346	ف.بك. <u>:</u>	0	
10	45,000	32.2	812	+ 12	2
9	<i>95,010</i>	15.7		- · 3	.2
. ය	25,000	78 5	•	-1.5	1.0
7	25,000	70.1	71	- 9	1
6	25,000	35.1	B ahat	- · 3	11.
S	.S.L.	127.5	120.1	-2.1	.5
4	S.L.	108.9	111	-2.1	.1
3	S.L.	105.0	196	-1.0	.5
2	(۵, ۷,	93.2	\$194.	8	·2
/	.5.	48:	4 7	+1.1	-3 .

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DATE: 1-15-65

CHECKER: (CO)

TAST	ALTITUDE	NET THEUST	CALCULATED NET THRUST	SCALE ERROR	FRICTION. ERROR
/	SL.	48.0	47	+1.0	X
2	: S.L., ·	92.9.	94 "	-1.1	 X
3	: <i>5.L</i>	104.8	106	-1.2	X
4	S.L.	108.5	///	-1.5	×
. 5	5.4.	93.5	96	-2-5	.:
6	25,000	19.0	19	···· Ø····· ·	*
,7	25,000	49.6	48	+1.6	
පි	25,000	57.1	56	+ 1.1	, ,,; ,,, , ,, X
. 9	45,000	9.1	9.4	- · 3	X
10	45,000	23.2	23	+ 2 1	Х .
11	45,000	25.3	25	+ · 3 '	×
. 11	45,000	25.0	25	ο .	.3
10	45,000	23.0 ;:	23	0	•2
9	45,000	9.0	9.4	- · 4	.1
8	25,000	56.6	55	+ '6	.5
7	25,000	49.1	48.	+ 14	.5
ٿ	25,000	19.0	19	0	0
ؿ	S.L.	92.7.	96 .	- 3.3	٠ &
. 4	5.2.	108.9	111	- 2.1	.6
ن	S.Z.	105.5	106	- 15	٠٦
2	S.L. ·	93.3	<i>ઉ</i> ં	7	.4
/	S.L.	1:5:0	47	+1.0	0

ALLOWED \$47, 00 \$1.0

DATE: 1-15-65...

CHECKEL!

FERGENT

TAST	ALTITUDE	% THE UST	CALCULATED	SCALE ERROR	FRICTION ERROR
/	· . 5L.	32	37.5	+ • 5	×
Z	. : S.L.	62.5	62.5"	0:	×
3	. S.L	70.5	70.5	0	×
4	S.L.	73.5	74.0	- •5	×
5	5.4.	63	64.0	-1.0	. *
6	25,000	34.5	34	+ .5	*******
7	25,000	इन्ह	ં દેવ	+1.5.	×
8	25,000	102.5	120.5	+ 2:0	×
9	45,000	41.5	48	-1.5	·×
10	45,000	105	105.5	-·5·,	*
11	45,000	77 2).	117.5	4.5	×
. //	45,000	$F_{i}, j \in \mathcal{J}$	114.5	0 '	.5
10	45,000	105.5 %	105.5	٥	.5
9	45,000	40		- 3.0	1:5
Ö	25,000	103	10:0.5	+2-5	-5
7	25,000	87	ं	+1.0	.5
6	25,000	33-5	<u>نې</u> ن	5	1.0
5	5.4.	625	64.Q	-1.5	.5 14
4	5.८.	73	74.0	- 1.0	· · 5
ڻ	<i>5.</i> Z.	No	70.5	5	.5
2.	5.L.·	62.5	62.5	0	0
/	S.L.	32	! <i>31.5</i>	4·5	0

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... DATE: 1-15-65

CHECKEZ:

TEST RECORD A 3D NET THRUST SYSTEM

REF: PLATE No. 1155

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(Based on: A7=464, A2=685, 100%Fn =15000

MOD. No. TME

DATE

TFS'TFR:

303 SER. No:

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	130. Fn&%	32	7.29	11.5	なら	0.299	38.8	700	104.2	8.17	5.501	176.2	%#±
	055. Fu6%	31.5	62.5	70.5	74.0	64.0	* 92	86.	100.5	43.	105.5	114.5	
	MEAS. Fn MV	0 3 0 0	1630	800	3061	1632	\$ 5 %	27%	1001	172.	407	677	
	IND.F MEAS.	7.47	۶ ۶	105.3	हिंदि	9.8	3.61	£	0 · x	o.ह	23.5	5.57	24%E
	DES.F n 100's	. 47	96	106	111	96	1.9	48	56	7.6	23	25	•
	IND.F MV &	84.0	1635	1841	.5001	2229	47.13·	1273	52.81	484	555	602.	
	IND.F	48.2	93.2	10501	109.1	1.7.1	35.2	1.6%	. 61	9/	32.5	34.7	13% cr
	DFS.F 100's.	47	76	1.06	.111	129.6	55.4	71	30	1.6	32	34.6	
	P. 2 • "H 1.6.3	0	0	0	0	5.05	666	1.344	1.47	.276	.601	.632	
EALS	P t 2 "II "II "OI	4.905	805° v	4.905	4.905	5.81.8	2.525	2,525	2,525	066.	066.	066.	
STRUCYCCA	F .00.		9.31	5.31	7.0I	ابم : :		5.64	3.64	1.423	1.428	1.428	Allewed
SIR	PA7 "H., 30 s		5.5	3.3 /	5.741	4.1.	1.5.0	2.236	2.41,3	.5557 1.423	1.023	1.041	
	Pt7 "H" .22	3.85	5.54	90.9	6.155	6.85	2.04	3.269	3.584 2.413	168.	1.419 1.023	1.515 1.041	
-	TEST	-1	8	M	4	Ŋ	9	7	ω	6	10	11	

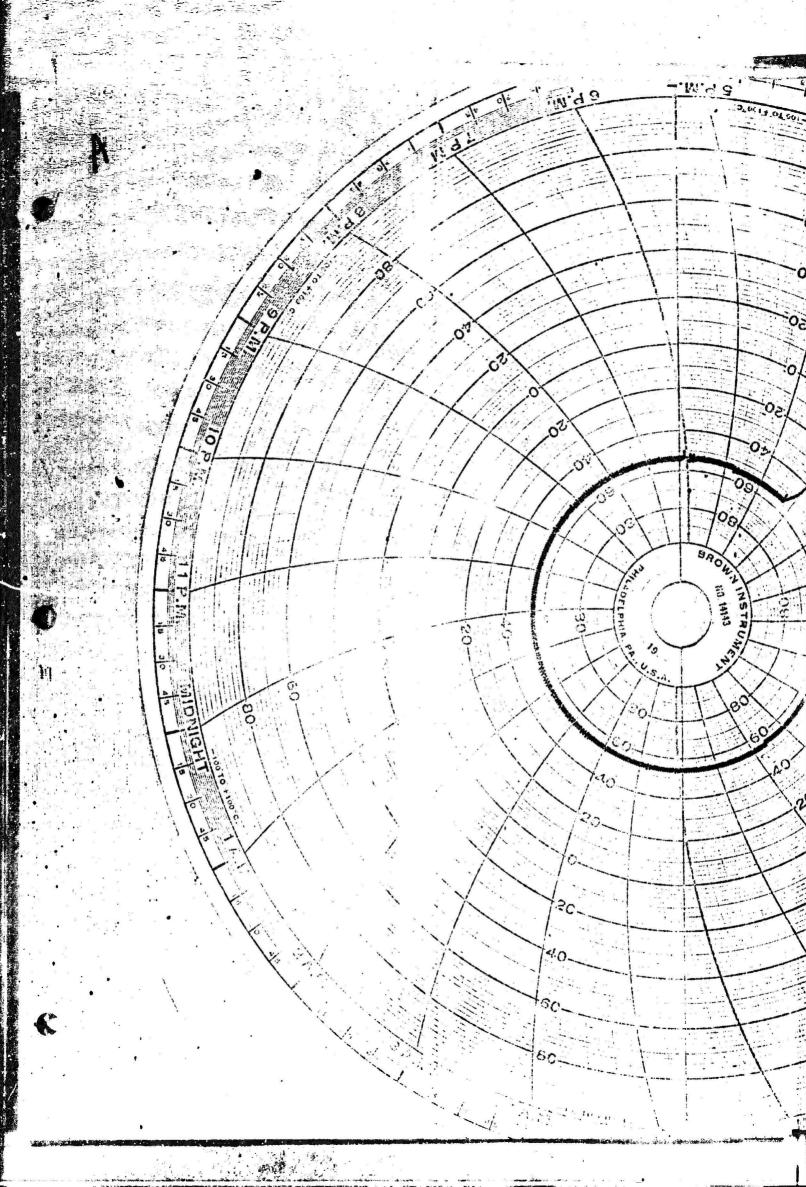
DATA TAKEN AT LOW TEMPERATURE DATE 2/3/65 lime 7:00 P.M.

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REJECTED

, PLATE 1223



TEST RECORD A 3D NET THRUST SYSTEM

PLATE No. 1155 REF: (Based on: A₇=464, A₂=685, 100%Fn =15000

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303 SER. No: MOD. No: TME

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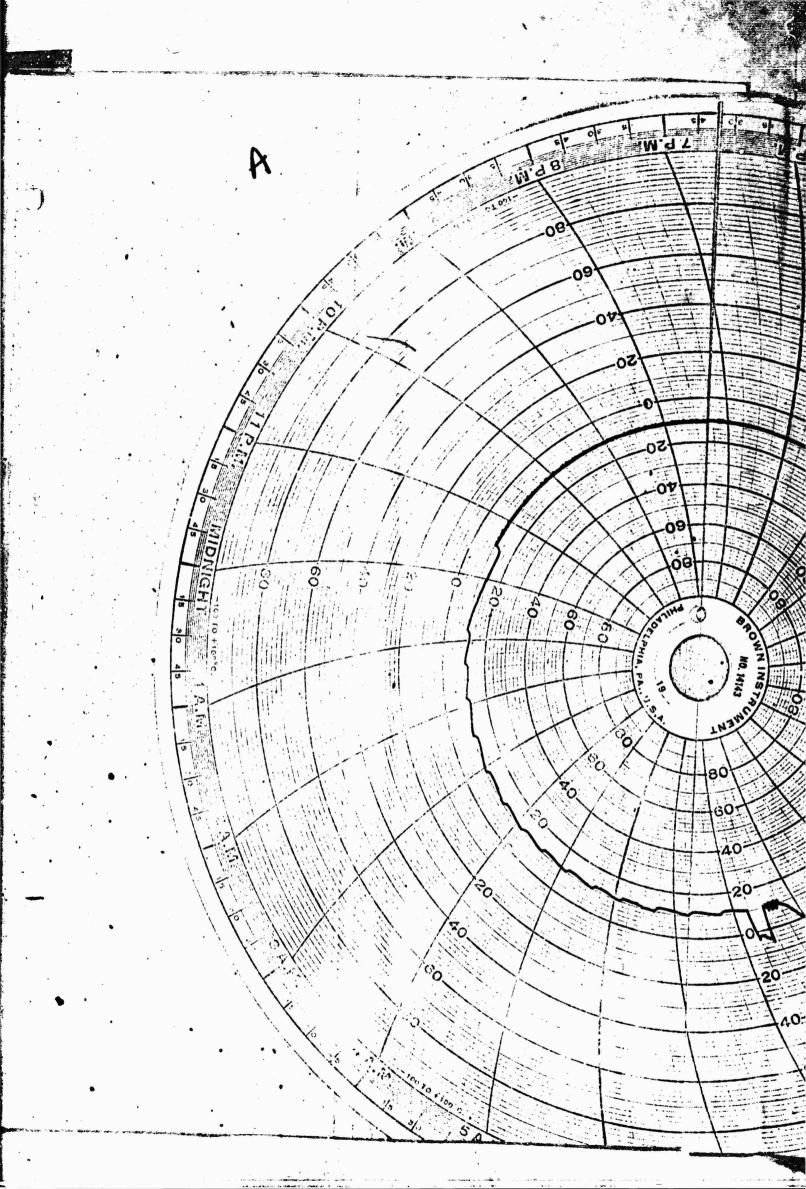
Accepted

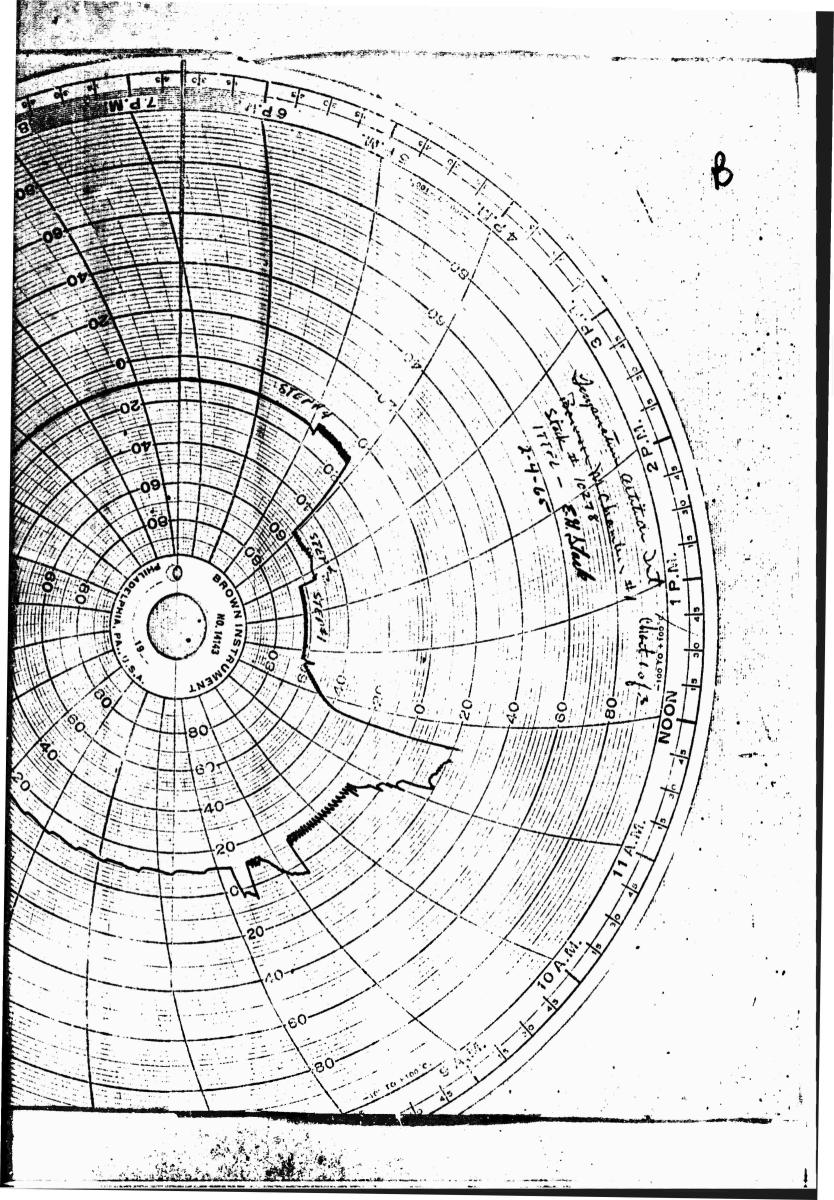
DATA TAKEN AFTER LOW TEMPERATURE

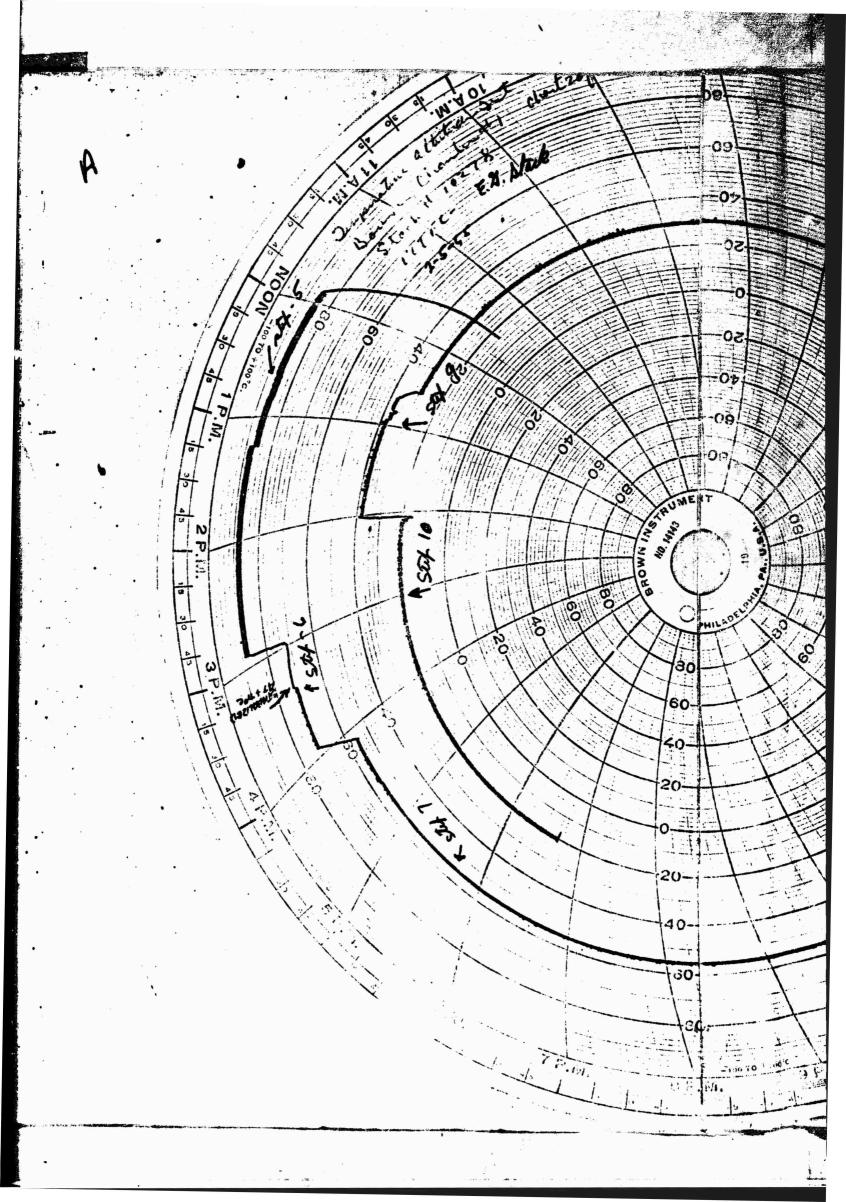
Time 11:00 A.M.

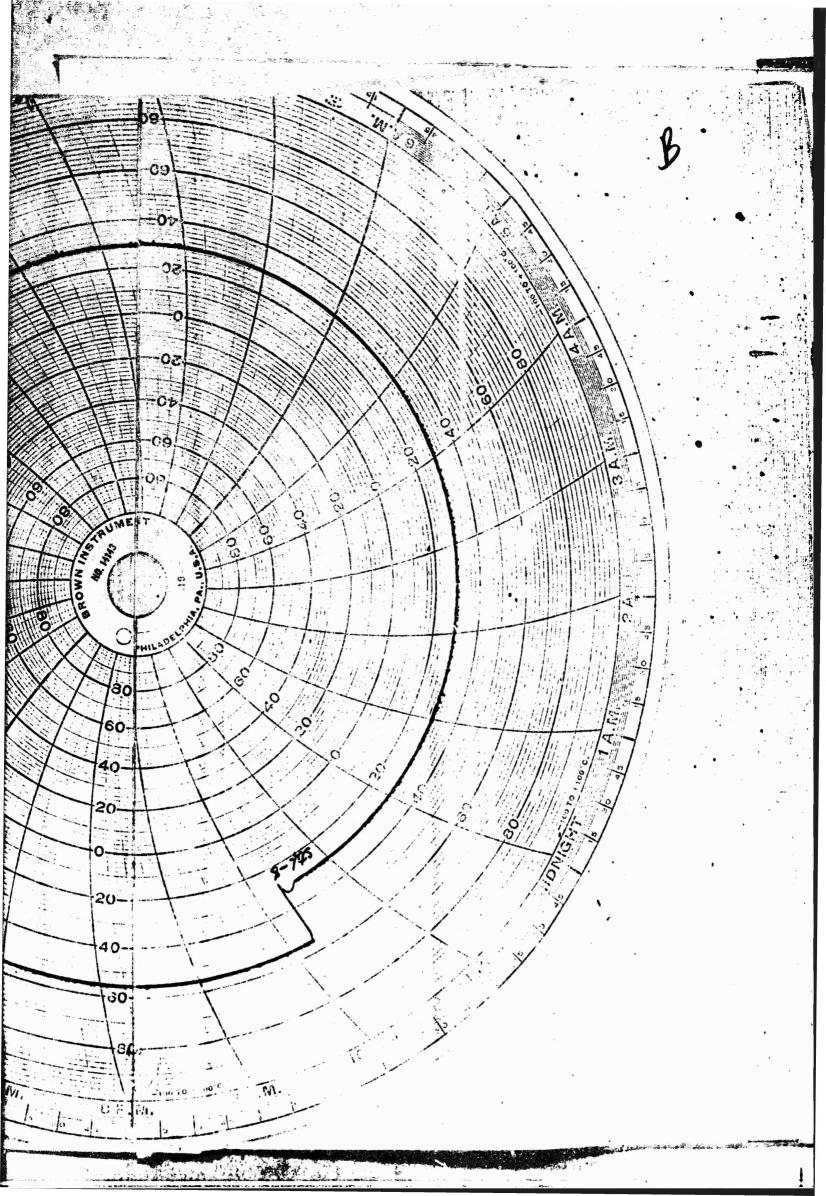
DATE 2/4/65

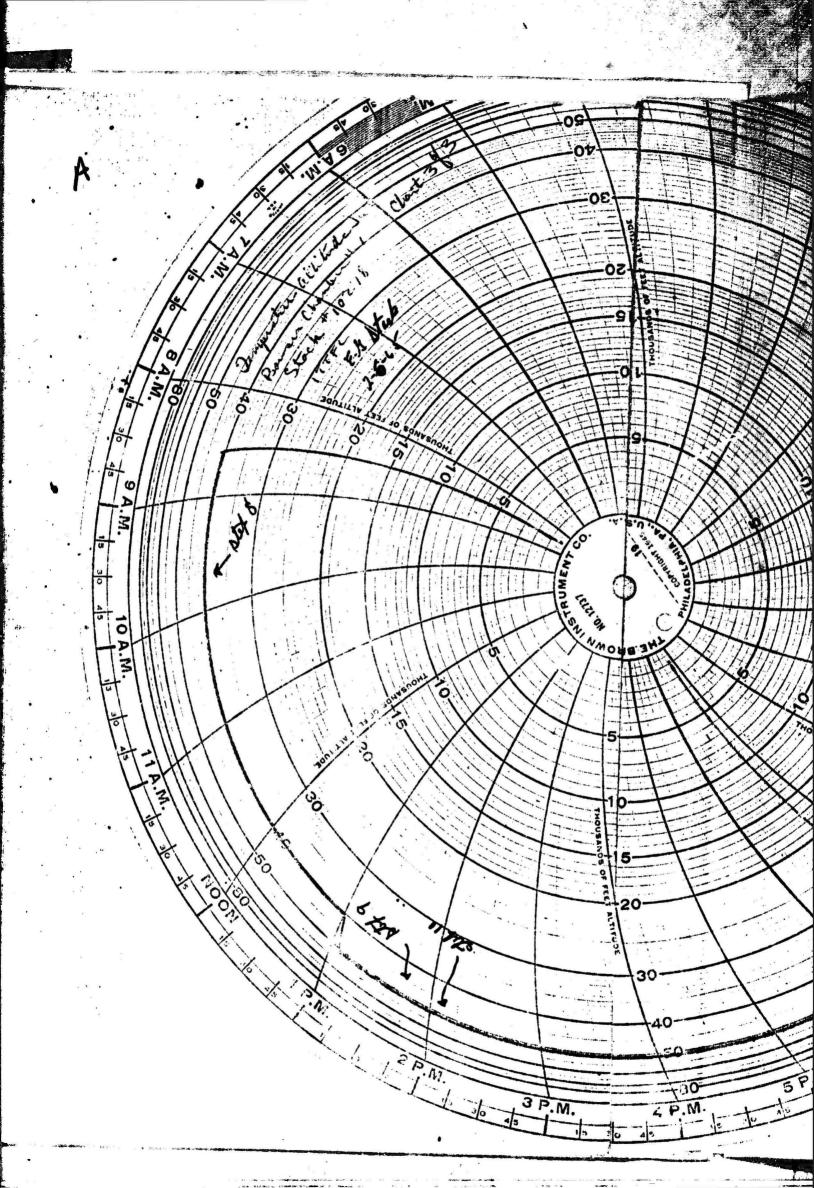
REJECTED

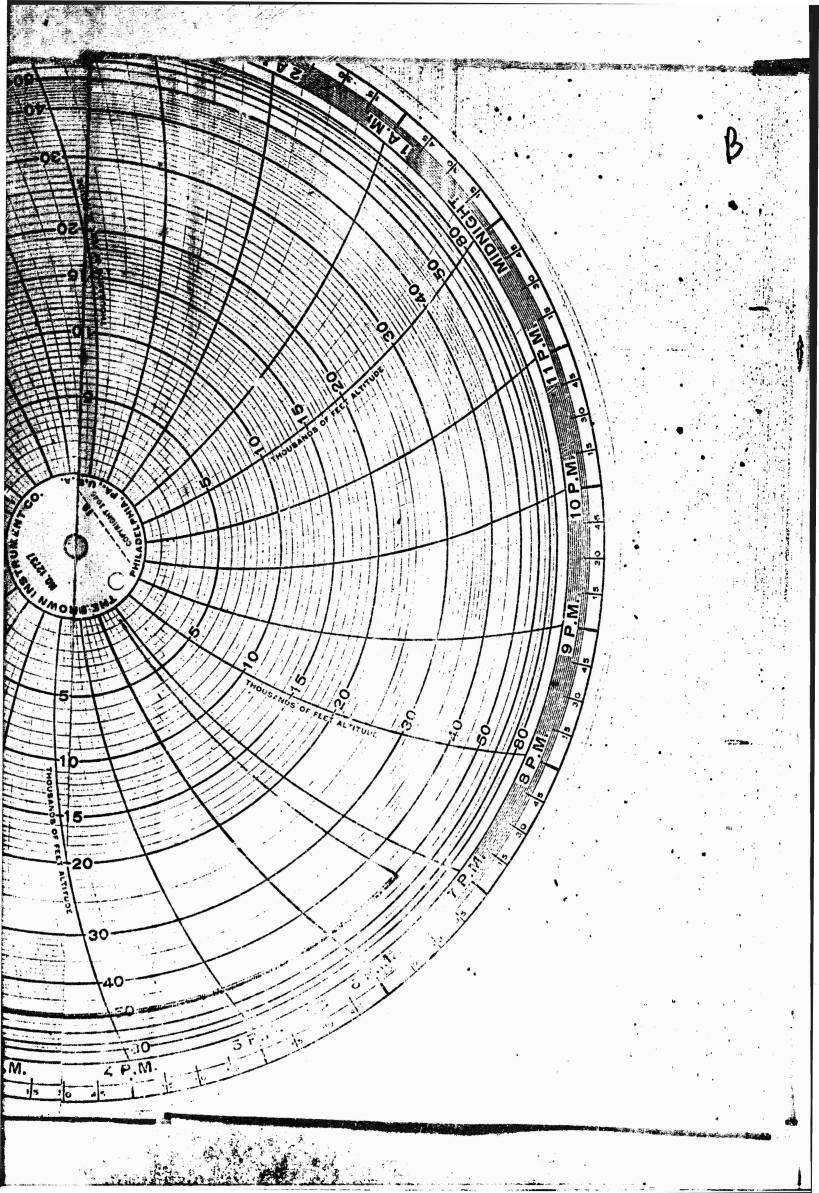












MOD. No: TME (Based on: A₇=464, A₂=685, 100%F_n=15000 REF: PLATE No. 1155

m 303 SER. No:

DATE: 2.4.65

TESTER: (2) Juny

	ОЖ	•	-						•	*	•			;
	IND. Fn & %	32.	9	717	7.5.3	かり	Ti Sistematical Control of the Contr	1.8	705	1 17	105.0	6.911	34.7	
	DES. IND. Fn6% Fn6%	31.5	62.5	70.5	74.0	0.49	34.	36.	100.5	43.	105.5	114.5		
	MEAS. Fn MV	840	1630	1802	1907	1639	353	264	1000	172.	707	uue		
•	IND.F MEAS.	84	94.	9.501	110	3.46	20.5	6.67	57.8	6.0	23.2	28.5	2342	11.0
	DES.F. 100's	47	96	106	111	96	19	48	56	9.6	23	25		
	IND.F MV g	(%) (%)	1630	7542	1903	8 5 7 8	613	1218	1375	284	553	603		
	IND.F 100°S	L #	93.1	103.9	011	3 21	35.2	70.2	78.3	15.8	32.2	34	13% or	£1.0
	DES.F	47	76	106	111	129.6	35.4	に	80	16	32	34.6		
	PA2 "H 16.3	0	0	0	0	3.05	.644	1.344	1.47	.276	.601	.632		
DIALS	$\begin{array}{c} P_{t,2} \\ "H_{\underline{g}} \\ 61 \end{array}$	4.905	4.905	4.905	4.905	5.818	2.525	2.525	2.525	066.	066.	.990		ed i
SIMULATOR DIALS	Pa "H" 30.5	9.81	18.6	9.81	9.81	9.81	3.64	3.64	3.64	1.428	1.428	1.428	7.7	Allowed 1
SIN	PA7 "H _g 30.5	2.095	3.37	3.567	3.741	4.17	1.308	2.226	2.413	.5557 1.428	1.023	1,041		•
	Pt7 "H	3.85	5.54	90.9	6.155	6.85	2.04	3.269	3.584 2.413	.891	1.419 1.023	1.515 1.041		
	- TEST	1	8	M	4	47	٥		0 0	٥	10	11		

DATA TAKEN AT TEMP/ALTITUDE TEST STEP 2 Time 3:45 P.M. Date 2/4/65

Accepted

REJELTED

REF: PLATE NO. 1155

(Based on: A7=464, A2=685, 100%Fn =15000

SINULATOR DIALS

MOD. No. 1 ME 303 SER. No.

TESTER: DA MANO

3

IND.F.

MEAS. Fn MV

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100 8

10018

PA2 "III.

P. "H.

PA7 "H 30.5

Pt7

TEST

DES. F

IND. F

IMD.F

DES. F

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Pn F Fn f %

DATE: 2.4-65.

2. 0%

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811

70.5

1827

105.5

106

1231

105.7

1.05

62.5

1625

93.8

1625

939

4.905

9.31

3.37

5.54

4.905

9.31

3.06

4.905

9.31

6.155 5.741

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6.35

4.905

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105.5 165.1

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114.5

449

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25

603

34.3

34.6

.632

1.428

1.515 1.041

11

13% or

44%5

5,318 9.81

2.525

5.64

2.03

3.64 3.269 2.226

3.64

2.525

3.584 2.413

.891

10

.5557 1.428 1.428 1.419 1.023

.990 066. .990 Allowed!

DATA TAKEN AT TEMPERAJURE/ALTITUDE TEST STEP

Time 6:00 P.M.

Date 2/4/65

REJECTED ACCEPTED

PLATE 1223

TESTFR: PASLA

REF: PLATE No. 1155

DATE:	
ce	
No:	
SER.	
MOD. No: TWE-303	
No:	
MOD	
100%Fn =15000	
Jased on: A7=464, A2=685,	

		% W	8		c	c.		<i>C</i> =0		7			6	70	
	IND.	% & u _	31.8	62.	5 71.9		79 64	Co 3	ا من من	104.7	45	501	11.5.9	74%	
	DES.	» ¢	31.5	62.5	70.5	74.0	0.43	34.	86.	100.5	43.	105.5	114.5		
	MEAS.	E ,	840	1629	1837	1912	1628	353	862	666	171	1407	8 ##	, :	
	IND.F.	s.001	0.34	93.1	105.6	1010	95	20.1	64	57.2	9.3	23.1	2.5.2	74% or	11.0
	DES.F.	100's	47	. 46	106	Lii	96	1.9	84	56	9.6	£3	25		
	IND.F	MV	0+8	1630	1837	1912	2228	613	1215	1375	784	286	603		
	IND F	1.00's	48.2	93.1	105.6	5-801	128.1	35.2	71	1.61	15.9	31.9	34.6	13% or	11.0
	DES.F	100's	24	. 46	, 901	111	1.29.6	55.4	и	80	16	32	34.6	,	
	P. 2	16.3	·	0	0	0	3.05	.664	1.344	1.47	276	.601	.632		•
DIVIS	Pt2	19 H ₁₁	4.905	4.905	4.905	4.905	5.818	2,525	2.525	2.525	066.	066.	066.		edi
SILL LATOR DIALS	CJ.	30.5	2.81	9.81	18.6	18.6	38.€	5,64	5.64	3.64	1.428	1.423	1.428.		Allowed!
SIS	P. 7.27	30.5	2.095	3.57	NY	5.741	/::;	1.303	2,256	2.413	5557	1.023	1,001		
	P _{t7}	, 22	3.15		6.00	6.155	6.35	2.04	3.269	3.584	168.	1.419	1.515		
		TEST	1	0.	•^	4	Ŋ	. છ	7	ω ,	٥	10	11		

DATA TAKEN AT TEMP/ALTITUDE TEST STEP 6
DATE 2/5/65 Time 3:30 P.M.

ACCEPTED.

REJECTED

PLATE 122

DATE: 2-5.65 TESTER: 002 SER. No: MOD. No: TWE 303 (Based on: A7=464, A2=685, 100%Fn =15000 REF: PLATE No. 1155

	OK.		* 1			-						×		
	IND. Fn&%		31.2	2.7	1.02	73	64.5	35.1	77	190	1:25	105.2	1.5.1	347
	Pn & %		31.5	62.5	70.5	74.0	64.0	\$6.	86.	100.5	43.	1.05.5	114.5	
	MEAS. F MV		Sho	/63/	6881	1907	2239	35/	123	1003	173	406	450	
	IND.F MEAS.		420	93:1	106.3	011	7.26	19.6	48.7	22	9.5	23.6	1.50	77.KG
	DES.F.		47	. 46	106	111	. 96	61	48	56	9.0	23	25	·
	IND.F		245	1831	1839	190%	2230	773	1211	1369	4	559	603	
	TWD.F		47.3	94.9	105.7	1001	1289	35. 8	21.7	Š	16.9	, /2	34	13% or 11.0
Di:	DFS.F.	;	47	15	1,08		1.29.6	35.4	71	30.	16	32	34.6	
	Λ2 "H	16.3	0	0	C	0	5.05	199.	1.544	1.47	.276	.601	.632	
DIVES	Pt2	19	4.905	4.905	4.905	4.905	5.81.8	2.525	2.525	2,525	. 066*	066.	066.	. Ips
STRUCATOR DIALS	™	30.5	9.81	9.81	18.6	78.6	9.81	5.64	3.64	3.64	i.428	1.428	1.428	Allowed
ZI'S	7 ₩.	50.5	2.095	3.37	5.367	5.741	4.1.7	.303	2,225	3.584 2.413	5557 1.428	1.023	1.041	
	P _{c7}	.22	3.85	5.54	8.03	6.155	86.85	2.04	3.269	3.584	168.	1.419	1.515 1.041	
	TEST		-1	7	. •೧•	4	ن	9	7	& ∴	o .	οī	1.1	

DATA TAKEN AT TEMP/ALTITUDE TEST STEP 7
DATE 2/5/65 Time 8;30 P.M.

Accepted -

REJECTED

TIES TATE NO. 1155

. (Based on: A7=464, A2=685, 100%Fn =15000

MOD. No: Twe 303 SER. No:

TESTER: ODSUM DATE: 2-5-65

IND. Pn6% 31.4 62.1 41.0		96.99 104.1 41.5	105.3	76
	0		6 🖹	***
Fig. 8 31.5 70.5	64.0	n6. 100.5	105.5	,
MEAS. Fn MV 837 1629 1900	1631 354	860 1802 173	4 to 6	
IND.F. 100's 100's 48'. 48'. 106.1	95.7	57.5	23.1	71/Kor
DES.F. 100's 47- 94 1.06	96	48 56	25 23	
IND.F MV 8 MV 8 84! 1637 1838	2228	2,01	550	
100's 100's 100's 46 93.4 105.9	35.3	79.3	34.8	13% or
DES.F 100°3 47 94. 106	35.4	71 80	34.6	
PA2 "H" 16.3 0	5.05	1.344	601	
Pt2 "Hg 61 4.905 4.905 4.905	5,818	2.525	066.	ed i
SIRILATOR DIALS Pa	9.81	3.64 3.64 1.428	1.428	Allowed
2.095 3.37 5.741	6.1.7 1.503	2.226 3.64 2.413 3.64 5557 1.428	1.419 1.023	7
Pt7 "H. .22 3.85 5.54 6.06	6.85	3.584	1.419 1.023	
TEST 1. 1. 2. 2. 2. 5. 5. 4.	io o	. 8 0	10	,

DATE TAKEN AT TEMP/ALTITUDE TEST STEP &

DATE 2/5/65 Time 8:45 P.M.

Accepted.

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TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

(Based on: A7=464, A2=685, 106%Fn =15000

MOD. No: TWE 303 SER. No:

		ğ							,	•				٠
	EN C	n& % "n& %	5.75	62.3	1.16	74.7	63.9	347	1.13	105.9	42.9	701	1114	34.7
	DES.	n & &	31.5	62.5	70.5	74.0	0.49	3,6.	36.	100.5	43.	105.5	114.5	
	MEAS.	e a	842	669	1841	1927	1639	353	72%	1002	121	3	448	••
•	IND.F.	100's	28	93.7	105.7	112.6	95.8	79.8	49	5.6.8	9.3	23.5	25.9	274 C
	DES.F.	100's	47	96	1.06	111	96	1.9	48	.56	7.6	23	25	
	IND . F	MV.	843	1629	1601	1709	2229	019	1213	1500	286	280	000	
	IND.F	100's	48.7	93.0	105.1	112.9	130.1	35.1	70.9	78.7	15.5	co M	35	13% or 11.0
•	DES. F	1001	47	٧٥	1.05	111	9.601.	55.4	, 71	80	16	32	34.6	
	P. 2	"H 16.3	0	0	0	0	3,05	.664	1.344	1.47	.276	.601	.632	
OIVES	Pt2	19 H.,	4.905	4.905	4.905	4.905	5,81.8	2.525	2.525	2.525	066.	066.	066.	i po
SINDIATOR DIALS	7. a	**H \$0.5	2.31	9.31	9.31	9.81	9.31	5.64	3.64	3.64	1.428	1.428	1.428	Allowed
SIS	PS7	30.5	2.095	3.37	5.307	5.741	4.17	1.50.1	2.226	2.41.3	5557	1.023	1.041	
	Pt7	H. 2.2.	3.85	5.54	6.65	6.155	6.35	2.04	3.269	3.584 2.41.3	.391	1.419	1.515 1.041	·
		TEST	-1	~	rn _.	4	ч	ပ	7	8	٥	10	11	

DATA TAKEN AT TEMP/ALTITUDE TEST STEP Bate 2/5/65 Time 9:00 P.M.

Accepted

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2 34 50

The service of the service of the

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

(Based on: A₇=464, A₂=685, 100%F_R =15000

MOD. No: Twie 303 SER. No:

TESTER: MA

M

DATE:

	63.9 34 87 104.9 175 175 175	54. 86. 100.5 43. 105.5	75.00 95.90 95.90 1.10 4.05.90 4.05.90 95.	43:5 48:2 51 48:2 25 4:0 4:0 4:0	96 119 48 56 23 25	3229 610 1205 1370 282 553 602	127 35 69.9 78.8 15.8 32.0 34 13% or	35.4 71 80 16 32 34.6	3.05 .644 1.344 1.47 .276 .601	5.818 2.525 2.525 2.525 .990 .990	9.81 3.64 2.64 2.64 2.64 1.428 1.428 1.428	N	6.85 4.17 2.04 1.303 3.269 2.226 3.584 2.413 .891 .555 1.419 1.023 1.515 1.041
	134	100.5	497	57	56	1370	78.8	, 08	1.47	2.525	3.64	.413	(1
	C00	86.	658	.48.5	84	1205	6.69	77	1.344	2.525	3.64	2.226	
	34	34.	350	6/	13	0/0	35	35.4	.644	2.525	3.64	1.303	
		66.0	0€9 /	93.5	96	5226	127	129.6	3.05	5.818	18.6	4.17	٧.
	73.9	74.0	0061	108.9	111	1900	108.1	111	0	4.905	9.31	3.741	4-1
	71	70.5	7881	105	106	1836	201	106	0	4.905	18.6	3.567	6.1
	62	62.5	1628	93	96	1628	93	96	0	4.905	9.81	3.37	
	2	31.5	830	47	47	830	46.9	47	0	4.905	18.6	2.095	
ğ	Pn& Fn&	DES. Fn&%	MEAS. Fn MV	IND.F MEAS.	DES.F 100's	IND.F	IND.F	DES.F g	PA 2 "H	P _{t2} ""H _g	ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε	PA7 "H 30.5	
										DIALS	SIMULATOR DIALS	SIN	

STEP 8 DATA TAKEN AT TEMP/ALTITUDE

2/6/65 Time 9:00 A.M.

REJECTED

Accepted

REF: PLATE No. 1155

(Based on: A7=464, A2=685, 100%Fn =15000

MOD. No. This 303 SER. No.

TESTER: 20

SIMULATOR DIALS

	OK			,										
	IND. Fn&%	31.9.	63	11.5	74.6	47	35.6	7.38	104.7	42.2	104.7	116.9	71%	1074
	DES. IND. Fn&% Pn&%	31.5	62.5	70.5	74.0	64.0	34.	86.	100.5	43.	105.5	114.5		,
	MEAS. F nv	840	/634	4.0	1912	619/	353	862	999	173	407	448		
	IND.F MEAS. 100's Fn NV	. 87	93.7	105.7	6.801	4. 16	20.9	6.67	27.6	4.4	23.2	26.7	INKO	410
	8,001 u 3°830	47	96	1.06	111	96	1.9	48	56	9.6	23	25		
	IND F WW 8	840	1634	केंद्र छ।	1912	2231	4/9	1208	1373	784	254	605		
	IND . F	48.3	939	1.501	5.801	128	35.1	11	1 62	5.91	32.1	34.7	£3% or	*
	DES.F 100's	47	96	106	111	129.6	35.4	ル	80	16	32	34.6		
	PA2 "H 16.3	0	0	0	0	3.05	799.	1.344	1.47	.276	.601	.632		
UIALS	Pt2 "H	4.905	4.905	4.905	4.905	5.818	2,525	2.525	2.525	066.	066.	066.		ed
SIMULATOR DIALS	5°05 Hii B	9.81	9.81	9.81	9.81	18.6	3.64	3.64	3.64	.5557 1.428	1.428	1,428	,	A Mowed
JTC .	PA7 "H 30.5	2.095	3.37	3.567	3.741	4.17	1.308	2.226	2.413		1.023	1.041		
	Pt7	3.85	5.54	90.9	6.155	6.85	2.04	3.269	3.584	.891	1.419 1.023	1.515 1.041		
	TEST	1	N	ń	4	'n	•		00	α.	10	H	,	• •

DATA TAKEN AT TEMP/ALTITUDE STEP 8

DATE 2/6/65 Time 9:35 A,M.

Accepted

PLATE No. 1155

(Based on: A₇=464, A₂=685, 100%Fn =15000

MOD. No: THE -

~ SER. No: 303

TFSTFR: ROShor -

3.6.65

DATE:

ğ 200 105.5 105.4 64.7 176.2 100.5 105.2 74 62.5 62.7 34x 70.5| 72.0 74.0 Pn & % 114.5 0. 79 86. 43. 36. なさか 220/ F_n MV 145/ 407 863 1981 173 4481 MEAS. 280 352 1631 IND.F. 2.75 2001 2002 INKOr 49.6 23.1 54.4 25.7 0,0 11.0 30/ 48 93 n 1001s 9.4 DES.F 96 19 48 26 23 47 96 106 25 111 2232 **558**/ /632 9061 1376 IND.F 784 603 1213 558 300 213 , AM 108.7 105.5 127.2 13% or IND F 92.9 20.02 34.6 70.30 35,3 32.2 16:0 100 8 DES .F 35.4 34.6 129.6 80 106 111 16 32 7 1.344 .644 .276 .632 .601 3.05 1.47 ₽2 .H. 16.3 4.905 4.905 4.905 2.525 2.525 2.525 066. 4.905 5.818 .990 066. SIMULATOR DIALS Allowed 1 Pa "H" 30.5 1.428 1.428 1.428 3.64 3.64 9.81 9.81 9.81 3.64 9.81 9.81 .5557 3.269 2.226 3.584 2.413 1.419 1.023 2.095 "H. 30.5 3.567 1.308 6.155 3.741 1.515 1.041 3.37 P 72 4.17 .891 90.9 5.54 6.85 2.04 3.85 Pt7 "H" TEST 10 11

DATE TAKEN AT TEMP/ALTITUDE

Time 11:00 A,M. 2/6/65 DATE

Accepted

PLATE 1223

THE THE THE THE TANK THE THE 7.6.65. State 1:45 Pm

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TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE NO. 1155

(Based on: A7=464, A2=685, 100%Fn =15000

MOD. No: THE 303 SER. No:

TESTER: 022

DATE: 2.6.65

	Ä													j	
	es. Ind. ng% Fn6%	32.1	63	72	14.3	t	92	طه دله	6.001	42.	105	97/	347	76%	
	ngs. Pn&%	31.5	62.5	70.5	74.0	64.0	3%.	٠ ٥.	1.00.5	43.	105.5	114.5			\
	MEAS. Fn MV	837	1628	7845	8061	1640	254	778	700/	172	407	448			,
	IND.F MEAS. 100's Fn NV	. 84	93.8	7.501	1.601	43.7	20.1	64	27.7	9.3	23.1	25.6	77% cr	11.0	
	DES.F n 100's	47	96	106	111	96	19	48	56	7.6	23	. 25			
	IND, F MV g	837	1628	1842	8061	2232	9/9	1210	1378	284	562	605			
	IND.F	47	93.2	8.501	8 80/	128	35.3	70.2	6.84.	15.9	32.2	34.7	13% on	11.0	
	0FS . 2 1.00°s	47	54	1.06	111	129.6	35.4	n	80	16	32	34.6			
٠	P. 2 "H. 16.3	0	0	c	o	3.05	,644	1.344	1.47	.276	.601	.632			
DIALS	Pt2 "II 61	4.905	4.905	4.905	4.905	5.3.3	2,525	2.525	2.525	066.	066.	066.		cdi	
STEULATION DIALS	P _a η, η, 9.81	18.6	9.81	9.81	9.31	3:64	3.64	5.64	1.428	1.428	1.428		A Nowed!		
SIE	P∆7 "II, 307:	5.095	3.57	1.887	3,741		: :-	2.2.3	2.41.5	.5557	1.023	1.041			
	Pt7 "Ή" .22	3.85	5.54	6.06	6.155	6.85	2.04	3.269	3.584	168.	1.419	1.515 1.041			
	TEST	Ţ	0	M	4	Ŋ	9		œ	0	10	11			4

DATA TAKEN AT TEMP/ALTITUDE STEP 9

Time 1:45 P.M.

DATE 2/6/65

Accepted

: 1md : 5

30.00

TEST RECORD A 3D NET THRUST SYSTEM

REF: PLATE No. 1155

(Based on: A7=464, A2=685, 100%Fn =15000

SER. No: 303 MOD. No: IME

m

TESTER: PALLERA

2.6.65

DATE: SIMULATOR DIALS

OK OK 8.401 IND. Fn&% 5.29 38.2 88.9 74.3 41.9 27% 105.5 105 4 114.5 116 74.0 66.0 Prof. 2 31.5 62.5 70.5 100.5 RK. · • 43. MEAS. F_n MV 4061 1839 1635 633 862 644 1629 353 407 1000 11/ 105.7 IND.Fn 6.801 94.2 17X5 47.2 93.0 6.84 57. 4 9.3 X:1 23.1 20 DES.F. 100's 9.4 96 1.9 48 56 23 47 46 106 25 111 2229 1217 1907 1375 IMD.F 605 16 32 800 1841 553 8/3 187 MY. 13% or 100 8 34.4 105.7 78.9 47.9 70.3 32.2 15.9 7.601 IND.F 35.2 るな 100 8 DES. F 129.6 35.4 34.6 100 80 16 32 111 94 71 .276 .644 109. 632 1.344 3.05 1.47 15.3 0 4.905 .990 066. 066. 4.905 4.905 4.905 5.31.3 2,525 2.525 2,525 1.428 1.428 1.428 3.64 9.31 3.64 9.31 9.81 9.81 9.81 3.64 .5357 1.419 1.023 2,095 3.586 2.415 1.303 3.269 2.26 1.515 1.041 F. ... 5.155 3.741 3.37 227 168. 6,05 2.04 3.85 5.54 S. C. Pt7 TEST 10 11

DATA TAKEN AT TEMP/ALTITUDE STEP 10

Alloweds

Time 3:00 P.M. 2/6/65 DATE

ACCEPTED

46%

£1.0

REJECTED

REF: PLATE No. 1155

(Based on: A₇=464, A₂=685, 100%Fn =15000

MOD. No. THE 303 SER. NO.

TESTER: 635hry-

STAIR APPROPRIATE

	OK .	-		÷ ;			•1.							
	IND. Fn&%	31.7	~ 9	20	74.2	2.79	36	1.68	10:01	44	105.9	5.911	34.5	460
	DES. Pn&%	31.5	62.5	70.5	74.0	64.0	34.	8K.	100.5	,5,	105.5	114.5		
	MEAS. Fn MV	838	1631	1827	1707	022/	351	9 9 8	/003	173	1.07	277		
	IND.F. 100's	6.74	93.3	105.4	6801	7 + 4	20.8	49.9	57.9	1.6	23.3	25.8	71%c	07+
	DES.F 100's	47	76	106	111	96	19	48	56	9.6	23	25		
,	IND.F MV &	828	1631	1821	1907	2232	612	(223	1381	285	557	109		
	IND . F 100 's	47.7	8.3	4.501	8.801	128	35.3	71.2	t Ý	15.8	32	34.8	13% or	•
	DES.F 100's	47	96	106	111	129.6	35.4	71	80	16	32	34.6		
	PA2 "H 16.3	0.	0	0	0	3.05	.644	1.344	1.47	.276	109.	.632		•
DIALS	Pt2 "Hg 61	4.905	4.905	4.905	4.905	5.818	2.525	2,525	2,525	066.	066.	066.		edi
SIMULATOR DIALS	Pa "H 30.5	18.6	9.81	9.81	9.31	9.31	3.64	3.04	3.64	1.428	1.428	1.428		A Mowed
SIN	PA7 "Hg 30.5	2.095	3.37	5.507	3.741	4.1.7	1.363	2.226	2.413	.5557	1.419 1.023	1,0,1		
	Pt7 "H" .22	3.85	5.54	6.06	6.155	6.85	2.04	3.269	3.584	168.	1.419	1.515 1.041		
	TEST	. 1	7	M	4	. ທ	9	7	80	٥	10	11		

ACCEPTED

REJECTED

DATE 2/6/65 Time 3:45 P.M.

REF: PLATE No. 1155

(Based on: A7=464, A2=685, 100%Fn =15000 M

MOD. No: THE 303 SER. No:

TESTER: Postup

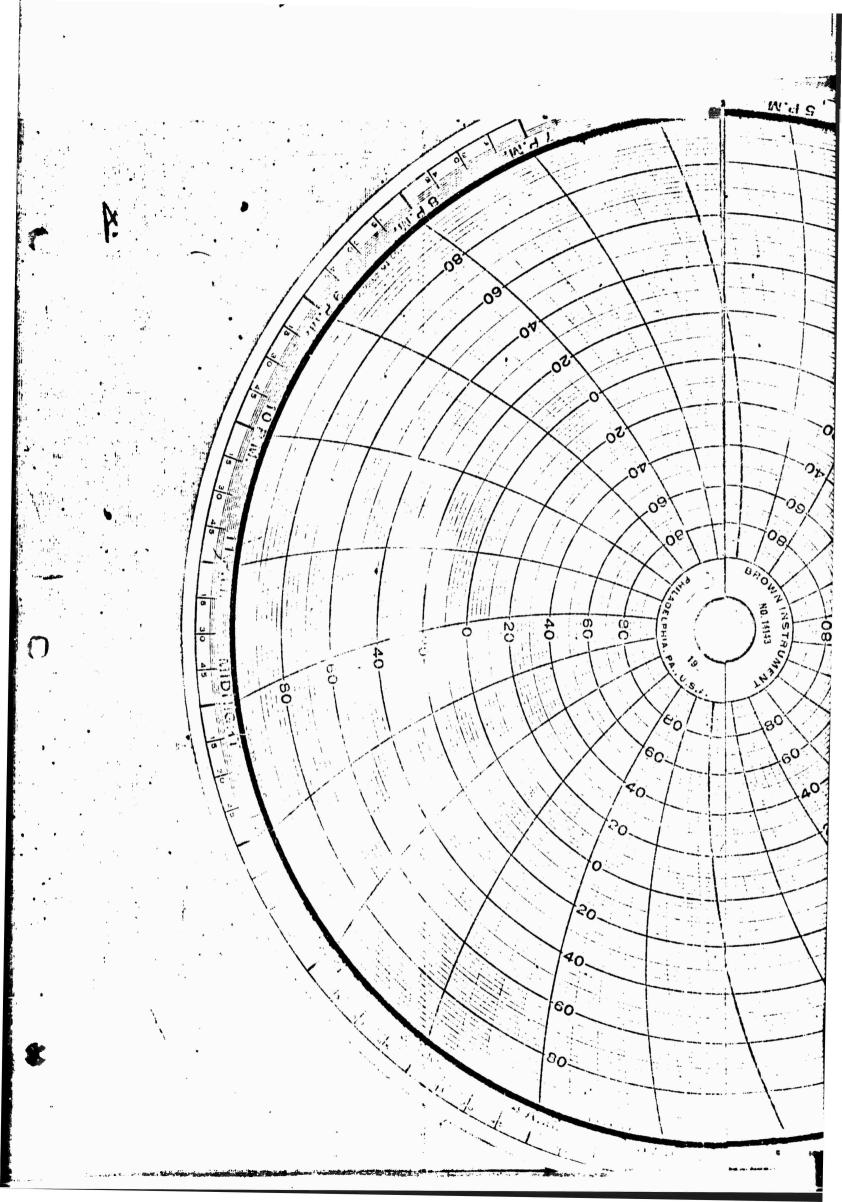
DATE: 2

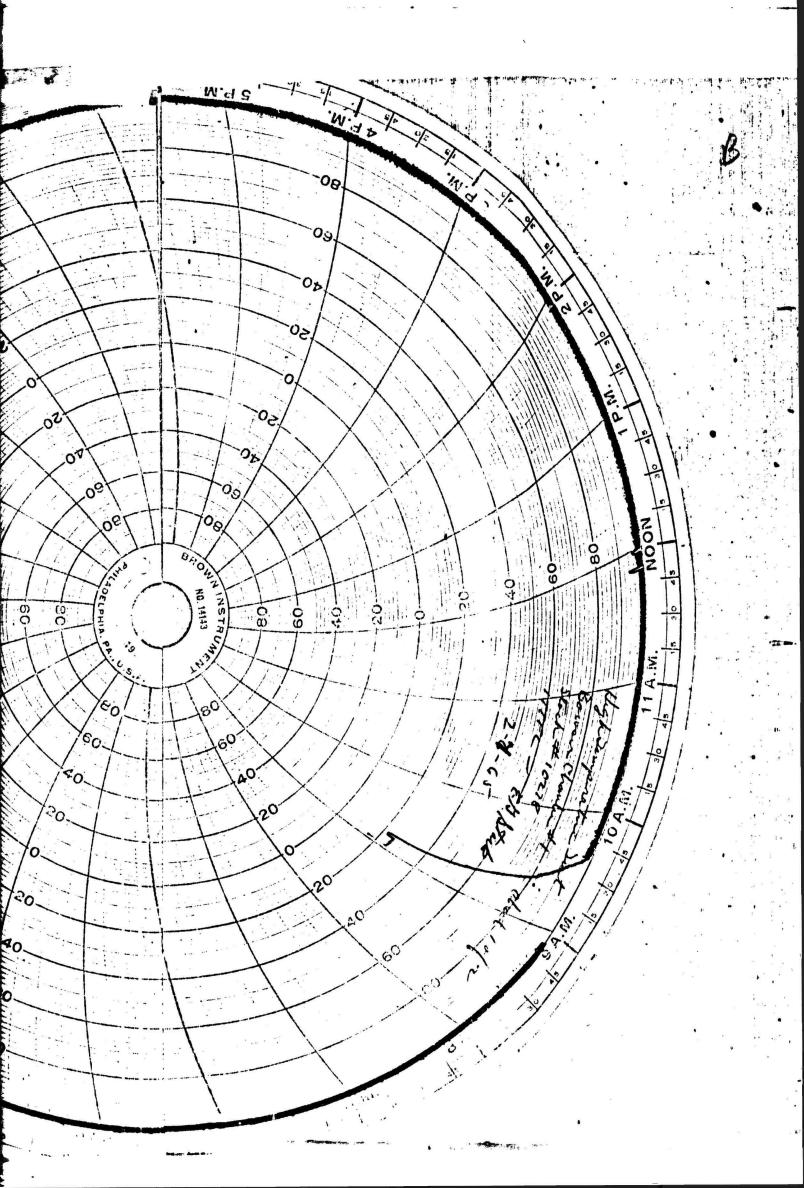
3

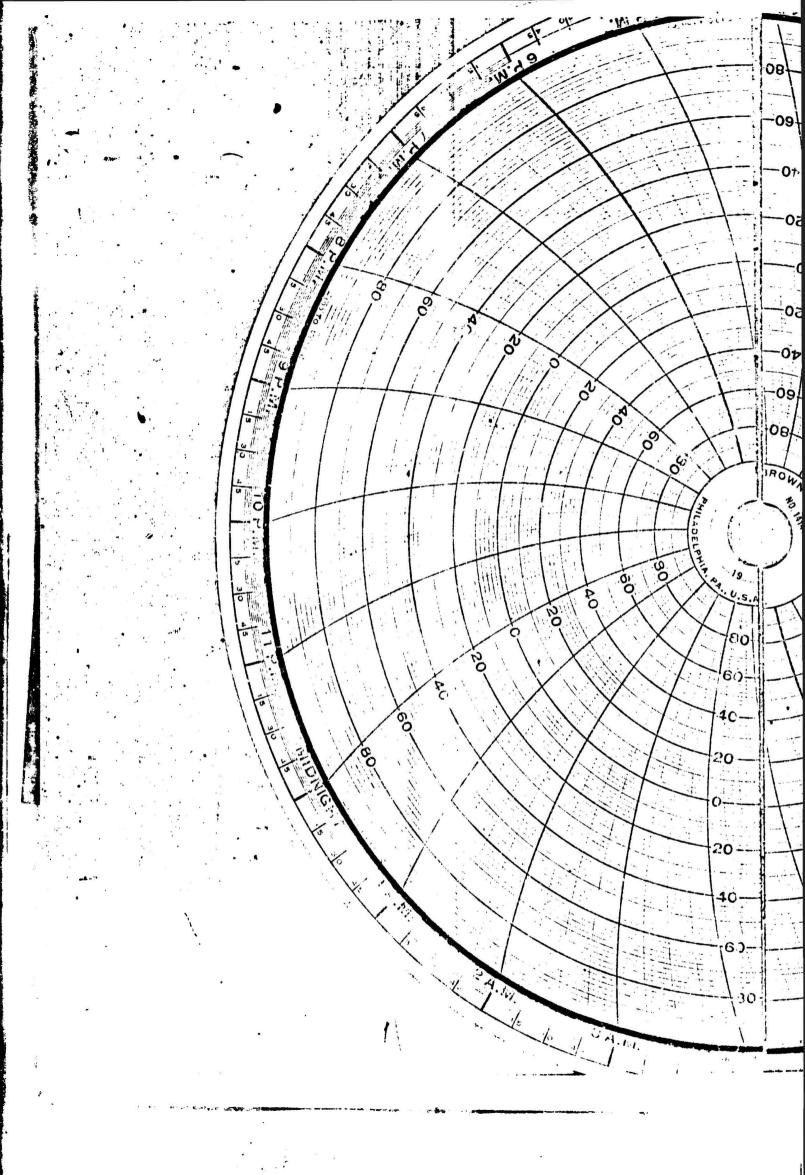
Ŗ IND. Fn6% 105.5 105.5 ひなひ 114.5 115.5 67 100.5 105 7.7 63. 300 Prif. 2 64.0 31.5 62.5 74.0 70.3 86. 34. 43. 1645 IND.F MEAS. 100°s F NV 404 644 1002 1628 174 352 1836 とった do m do 2161 1.01 4.501 25.8 I1X0-ムンチ 6.67 93.6 4.6 95.1 0 100's 4.6 DES.F 47 96 48 26 25 94 19 23 106 111 1373 446 66 1218 2236 9/9 552 1628 1836 7161 603 ISO.F 420 ¥ 13% or 11.0 IND.F 8.01 34.4 35.3 19.3 1.29.1 32.2 47.9 105.3 93.8 0 = DES.F 100's 129.6 34.6 35.4 106 111 16 32 7 1.344 .644 .276 632 .601 3.03 1.47 P 22 17 17 16.3 Pt 2 4.905 4.905 4.905 4.905 5.813 2.525 2.525 2.525 066. .990 066. SIMULATOR DIALS Allowed 1 Pa "H" 30.5 1.428 .5557 I.428 1.428 9.81 3.64 3,64 3.64 9.81 9.31 9.81 9.81 3.584 2.413 1.419 1.023 5,367 3.269 2.226 "H" 2.095 1.308 1.515 1.041 3.741 3.37 6.1.3 P. 27 6.155 .891 6.85 2.04 20.9 5.54 3.35 TEST 10 ~ 11

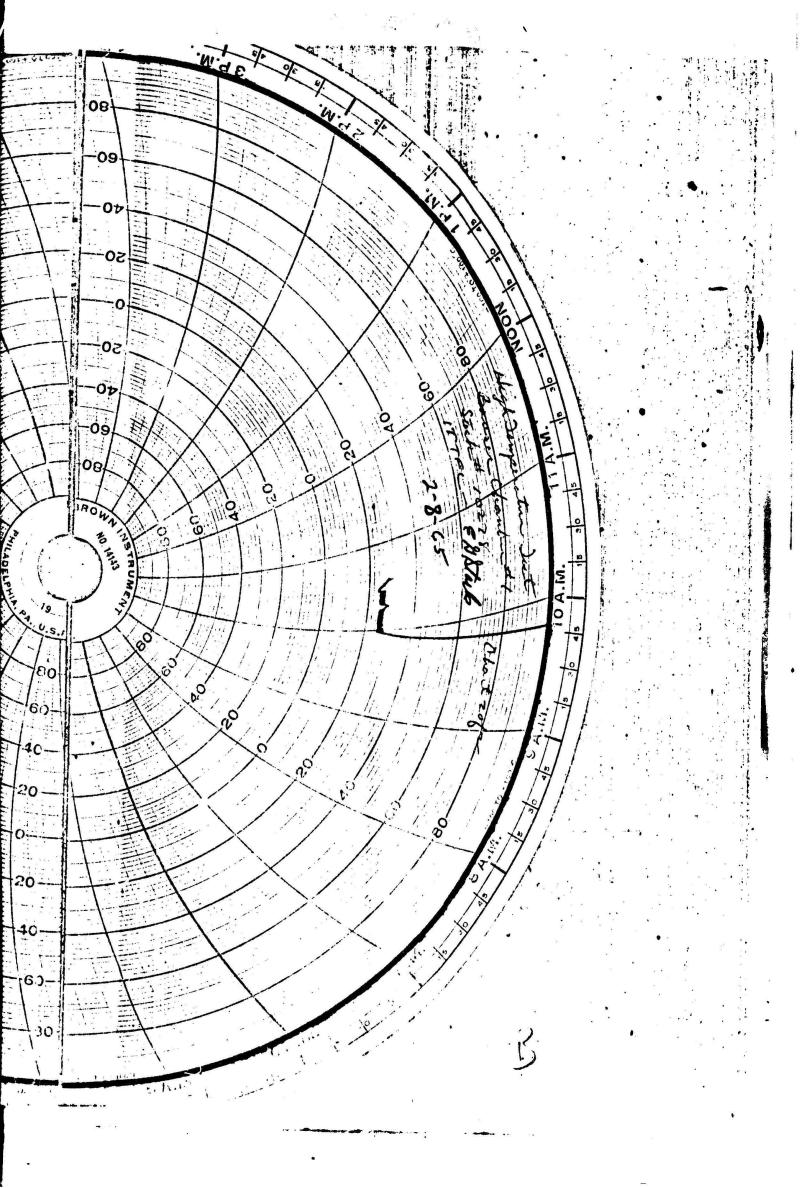
DATA TAKEN AT TEMP/ALTITUDE STEP 10
DATE 2/6/65 Time 4:30 P.M.

Accepted Rejected FLATE 1223









REF: PLATE No. 1155

(Based on: A7=464, A2=685, 100%Fn =15000

TESTER: 000

MOD. No: TME 303

SIMULATOR DIALS

	Š Š			in .	i	10	10			Lo					
	Fn63		3.18	63.5	72	74.5	68%	35.55	de Un	104.5	43.5	90/	977	11%	297
	DES. IND. Fn&% Fn&%		31.5	5.69		74.0	0 99	34.	8K.	100.5	43.	105.5	114.5		
	MEAS. Fn MV		8.30	5 8 9/	1840	1913	1640	350	093	1993	119	1100	450		
	IND.F. 100's		6.27	92.4	106.2	110.9	.36	30.5	49	5.1.2	9.5	73.1	25.9	74×0	41.0
	DES.F 100's		47	96	106	11.1	96	61	48	56	9.4	23	25		
	IND.F		35.30	1635.	1840	8/6/	22 30	6,2	1216	1370	289	555	509		
	100.F		87	4.46	106.2.	///	128.4	35.5	7).2	2.61	5.9/	32.6		13% or	£1.0
	DFS.F 1.00's		47	94	901	111	9.661	35.4	71	80	16	32 .	34.6		
	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	16.3	.	0	0	0	3.05	.644	1.344	1.47	.276	.601	.632		•
271170	Pt2 "H	19	4.905	4.905	4.905	4.905	5,813	2.525	2.525	2,525	066.	066.	066.		ed i
	P HH	50.3	18.6	9.31	0,31	18.6	13.6	49.	3.64	8.64	.428	1.428	1.428	;	Allowed
	NH.	0.00	2,093	3.37	1.501	3.741	7 k m2 4 c	1.360	2.226	2.415	.5557	1.023	1,0,1		
	T H	77.	3.85	5.54	6 .06	6.154	6.85	2.04	3.269	3.584	168.	1.419 1.023	1.515 1.041		
	TEST	٠	, m	%	m	4	Ŋ	9	7	, œ	6	10	11		

DATA TAKEN AT HIGH TEMPERATURE

Time 9:45 A.M. **DATE** 2/9/65

ACCEPTED

REF: PLATE No. 1155

(Based on: A₇=464, A₂=685, 100%Fn =15000

MOD. No: TME - 303 SER. No:

TESTER: RAMA

DATE: 2-9.6

m

	ğ	esOstri 12394	Tem Inc						State men	A - MPROP	and the second second	commenter. com		carriamizani,
	IND. Fn6%	32.5	63.5	72.	74.5	\$	375	80	S 9 /	42.5	107	117.9	34.7	46%
	DES. Fn&%	31.5	62.5	70.5	74.0	0.49	34.	BK.	100.5	43.	105.5	114.5		
	MEAS. Fn MV	639	1623	1828	1881	1791	3 50	098	7/0/	175	4 13	4 52		
	IND.F 100's	44	43	104.1	5.801	7	20	8.67	5.85	9.3	73.7	36	INKO.	±1.0
	DES.F	47	76	106	111	96	1.9	48	56	9.6	23	25		
	IND.F MV	9 39	1623	00 × 00	18 8 B	2222	209	5/2/	1380	285	755	505		
	IND.F	4 00	93.5	104.7	5.801	127	35	70	18.9	16	32	34.6	13% or	11.0
JIALS	DES.F	47	76	1.06	111	129,6	35.4	17	80	16	32	34.6		
	P. 2 "H 16.3	0	0	0	0	3.05	.644	1.344	1.47	.276	.601	.632		
	Pt2"H"	4.905	4.905	4.905	4.905	5.813	2,525	2,525	2.525	066.	066.	066.		ed i
SIMULATOR DIALS	Pa "III 30.5	9.81	13.6	18.6	9.31	9.31	5.04	3.0	3.64	.5557 1.428	1.428	1.428		Allowed 1
SIE	227 "H". 50.5	2.095	3.37	15.507	3.741	4.17	202.7	2.235	3.584 2.4 3	,5537	1.419 1.023	1.041		,
1	Pt 7	3.15	5.54	္ပ ္ ၀	6.155	6.85	2.04	3.269	3.584	168.	1.419	1.515 1.041		•
	TEST	1	~	'n	4	5	9	_	80	6	10	=======================================	4	

LATA TAKEN AFTER HIGH TEMPERATURE DATE 2/9/65 Time 10:30 A.M.

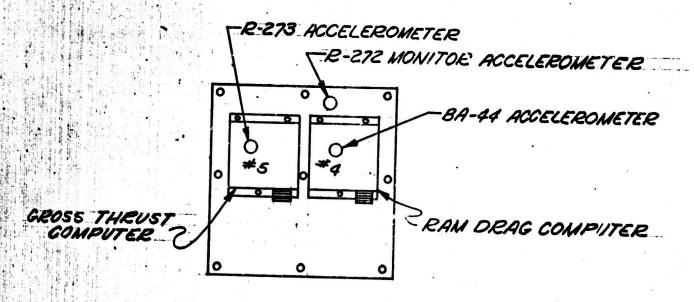
Accepted -

REJECTED -

4ATE 1223

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY N. Y.

2700 Nutimen Avenue, Fort Wayne, Indiana 46804





PLANE /

No RESONANCE FROM 5 TO 150 CPE

VIBRATION - 17.5 CAS

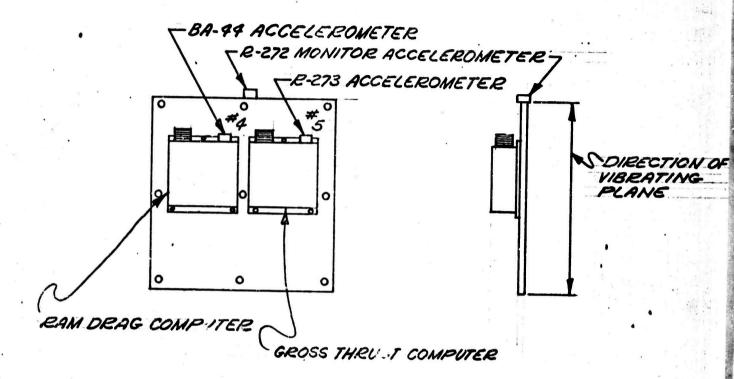
DATE - 2.9.65

TIME - 4 HRS DURATION

VIBRATION TEST
MOUNTING FIGURE 1

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804



PLANE Z

NO RESONANCE FROM 5 TO 150CPS

VIBRATION - 17 5cps

DATE - 2-9.65

TIME - 4 HRS DURATION

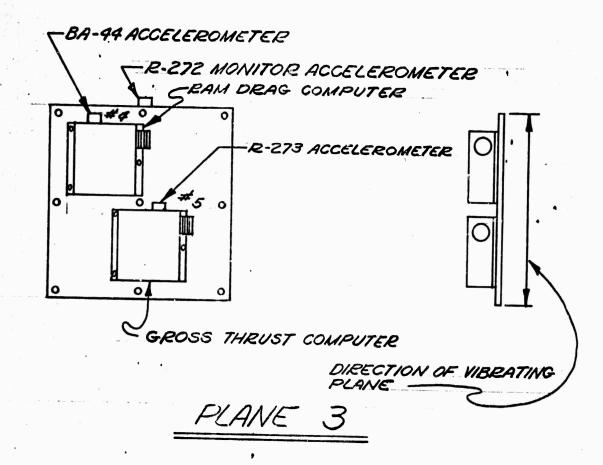
VIBRATION TEST

MOUNTING FIGURE 2

11

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804



NO RESONANCE FROM 5- 150 CPS

VIBRATION - 17.5 CPS

DATE - 2-12.65.

TIME - HKS DURATION

VIBRATION TEST

MOUNTING FIGURE 3

PLATE No. 1155 REF:

(Based on: A₇=464, A₂=685, 100%Fn =15000

TEST

303 SER. NO: MOD. No: TMIE

TESTER: OSSLAN

2-12-65

DATE: 3

8 Fn6% 43.5 87.5 かいつ 105.5 106.9 70.4 34.5 13.5% 103 IND. 15 73 63 74.0 0.13 70.5 100.5 % \$'u 31.5 62.5 114.5 34. 43. 86. DES. 6001 407 F NEAS. 33 34 90 791 1632 7091 ال ش ص do しゃせ 218 837 1.00 s 108:51 イグスの 23.8 5.401 IND.F 4.61 92.6 57.2 936 9.5 47.5 5.5.9 643 9.4 n 1001s DES.F 47 96 26 94 106 111 1.9 48 23 25 1236 2268 IND.F 1602 1836 20161 275 567 1379 600 605 215 ΜV 28.81 5.801 13% cr 127.3 32.4 34.5 100 '5 70.5 5.401 34.9 47.5 92.0 IND . F 9 10018 150.6 34.6 4.50 DES . F 0.03 80 16 32 1.5 94 111 z.644 1.364 .276 632 .601 P 2 "H" 16.3 5.65 1.47 C 0 Pt2 "III 61 2.525 4.905 .990 066. 066 4.905 4.905 4.905 2.575 2.525 SINULATION DIALS Partition of the second of the 1.428 5557 1.428 1.423 3.64 3.64 9.31 1976 9.81 3.64 9.31 9.81 3.584 2.413 1.419 1.023 1.30 2.095 3.269 2.226 6.155 3.741 "H" 30.5 1.515 1.041 3.37 P. 7 .891 2.04 6.85 6.CC 3.85 Pt7 "H" 5.54

DATA TAKEN DURING VIBRATION TEST 9:45 A.M. Time DATE 2/12/65

ACCEPTED

41.0

Allowed:

10

11

76%

REJECTED

REF: PLATE No. 1155

(Based on: A₇*464, A₂=685, 100%F_n =15000

DATE: 2-13 65 TFSTFR: PM

MOD. No: THE- 303 SER. No:

	OK K			i Mariaban kecisi	rtirakonya (sasyo		#1011 THE PERSON		·	280,844,	· consequence	0. 4. 25. 5		(des reservices
	IND. Fn6%	31.5	62.5	10	73.5	62.5	4	2	103	5.07	105.5	5.211	3117	76%
Æ	DES. Fn6%	31.5	62.5	70.5	74.0	64.0	34.	8ĸ.	100.5	43.	105.5	1.14.5		
	MEAS. Fn MV	134	6891	1930	2020	7891	347	902	540/	691	427	462		
	IND.F n 100's	48	92.7	501	6.801	6	9	49	57	1.6	23	25.5	77%cr	£1.0
	DES.F n 1.00's	47	94	1.06	111	96	19	48	56	9.6	23	25		
	IND.F RIV	458	6891	1930	2020	2360	632	1272	14.35	29.4	587	620		
	IND . F 1.00 'S	8#	42.7	501	b.801	871	8 S	70	28.5	16	3 2	34.2	13% or	11.0
	DES.F 100's	6.7	94	106	111	100.6	55.4	71.	80	. 16	32	34.6		
	PA2 "H	0	C	0	0	\$0°5.	757.	1.344	1.47	.276	.601	.632		The state of the s
DIALS	$\begin{array}{c} P_{t2} \\ "II \\ \hline 61 \end{array}$	4.905	4.905	4.905	4.905	2 17 - 5	55r.c	2,525	2,525	066.	066.	066.		cd i
SINDLATOR DIALS	Pa "H 50.5	9.81	9.8]] :: ·	9.81	9.01	3.64	3.64	3.64	1.428	1.428	1.428	11.7	A Mowed !
313	2∆7 ∴8 ∑∴5	2,0.5	5.3.		3,741		1.5.	2.226	2.41.3	.5557 1.428	1.023	1.041		
	Pt7 "H" .222	3.85	5.54	90.9	6.155	6.85	2.04	3.269	3.584	168.	1.419	1.515 1.041		
	TEST	1	8	٣	4	2	9	7	80	0	10	11		

DATA TAKEN AFTER IMPACT TEST

Time 11:15 A.M. DATE 2/13/65

ACCEPTED

REF: PLATE No. 1155

(Based on: A7=464, A2=685, 100%Fn =15000 MOD. No: 7m6-303 SER. No:

TFSTFR: PALLMA

DATE: 1.19.65

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		(C)	SHELLINICR DIALS	DIALS							•			إجسائير <i>و</i> •
TEST	Pt7 "H" -22	28.7 18.3 18.3	P "![30,5	Pt2"H	P. 22 "	DES F g 1.00's	IM), F	IND.F. g	DES.F 100's	IND.F n 100's	MEAS. Fn NV	DES. IND. Fn/5% Fn/6%	IND. Fn & %	M M M M M M M M M M M M M M M M M M M
1	3.85	·.		4.905	0	47	47.2	837	47	47.3	837	31.5	32	lvan urbaječný, lévečí kd
8	5.5%	15.0		4.505	0	96	93.1	1627	46	93.1	1627	62.5	£ 3.	PAGE TO
ĸ	9	7 . 6	9.31	§06.§	0	108	105.2	1843	1.05	1.05.2	5481	70.5	7	The state of the s
4	6.155	3,741	9.31	4.905	0	.111	6.801	1912	111	6801	1912	74.0	74.5	et ne
'n	6.::3	:.17	10.6	5,813	\$.05	. 129.6	127.6	2235	96	48.5	1642	64.0	5.49	
v	2.04	1.50	* * *	2.525	644	55.4	35.0	509	1.9	19.7	350	34.6	34,5	THE THE
7	3.269	2.286	3.64	2,525	1.344	่น	20.5	12.12	48	1.60	798.	86.	5.00	in strain
.	3.584	2.413	3.64	2.525	1.47	30	78.2	1370	56	57	497	1.00.5	201	
0	.891		1.428	066.	.276	16	15.9	285	7.6	9.0	170	43.	41.5	бурат во заван
10	1.419	1.419 1.023	1.428	066.	.601	32	32.1	560	23	23.1	407	105.5	105	E didgres (1946)
11	1.515	1.515 1.041	1.428	066.	.632	34.6	34.3	209	25	28.6	644	114.5	115.5	laur Malaine 19149911
			Allend	9			13% cn			エルドゥ			74%	SELECTE VIEW
			2017		The state of the s		17.0			21.0			16%	M's shines

DATA TAKEN BEFORE LIFE TESTING Time 3:00 P.M. DATE 1/19/65

ACCEPTED

REJECTED

PLATE 1223

REF: PLATE NO. 1155

(Based on: A7=464, A2=685, 100%Fn =15000

MOD. NO: 746-303 SER. NO:

DATE: 2/27/55

TESTER:(

M

* after envisor more tal and life tosts - no neadjectment meaning

62.5 63.962.0 64.0 640/20 31.5 2.5%.5 74.0 74.5/245 23.0/23.2 1706/408 105.5 105.95 70.5 72.952.0 86. 12.0/27.0 100.5 105% IND.F MEAS. 58.0/57.5 100/1000 105.5/105.2 1840/1840 109.0/05.9 1910/1901 94.5/95.5 1649/620 93.0/93.2 133/1630 598/100 0.05/5.64 211/11 1.6/0.6 48.9/2,2 F37/840 200/200 354/2 DES.F. 9.4 47 106 99 96 48 23 111 IND.F 79.0/18.2 1380/1370 48.0/48.2 857/440 98.0/93.2 1630/1630 1270/127.0 2230/2236 200/200 1210/120 Cheifchel 250/5501 006/2/61 6.80/6.601 16.415.9 285/283 320/32.1 556/560 35.0/010 1.25/0.35 MV IND.F DES.F 100's 129.6 35.4 30 16 106 32 111 7 .276 .644 1.344 .603 3.05 "Hg 16.3 1.47 **P**2 0 5.818 .990 4.905 .990 4.905 4.905 4.905 2.525 2.525 2,525 SIMILATOR DIALS Pa "H 30.5 .891 .5557 1.428 1.419 1.023 1.428 3.81 9.81 9.81 9.81 3.64 3.64 3.64 9.81 3.584 2.413 3.269 2.226 6.155 3.741 2.095 3.567 2.04 |1.303 6.85 4.17 3.37 P. 7 3.85 90.9 5.54 TEST 10

Time 4:30 P.M. DATA TAKEN AFTER LIFE TESTING DATE 2/27/65

ACCEPTED

114.5 116.0/17.0

8.52/5.25 HH7/149

345/20 SHE/50A

34.6

633

1.428

1.515 1.041

11

13% or

74%5

FORT WAYNE. INDIANA SO. BEND. INDIANA LONG ISLAND CITY. N. Y. 2700 Nuttmen Avenue, Fort Wayne, Indiana 46804

4.0 ENVIRONMENTAL TEST DATA TAKEN ON TRANSMITTERS AND INDICATORS
SUPPLIED ON THE AIR FORCE CONTRACT AF33 657-9589

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttmen Avenue, Fort Wayne, Indiana 46804

APPENDIX IV

This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

Quantity	Drawing	<u>Title</u>
10	300075	Test Record, AEK-4(200117) Indicator
12	300076	Test Record, TRK-52-1 (300015-2) XMTR
12	300079	Test Record, TRK-52-1 (300015-2) XMTR

FORT WAYNE, INDIANA SO, BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

5.0 SUPPLEMENTARY INFORMATION

5.1 Specific Sensitivity and Response Time Data

Although qualitative data only was noted on Serial Numbers 1,2, and 3 of the TME-303 system and reported above in paragraphs 1.2.1.3 and 1.2.1.4, quantitative data has been taken on a similar unit having identical response and is herewith included.

5.1.1 Sensitivity (Unidirectional "Stiction")

Gross: 35 lbs

Net: 26 lbs

Percent: .4%

5.1.2 Response Time for 100% change or 10,800 lbs change thrust

Gross or Net: 0.65 sec

Percent:

1.75 sec

5.1.3 Response Time for 20% change or 2000 lbs change in thrust

Gross or Net:0.22 sec

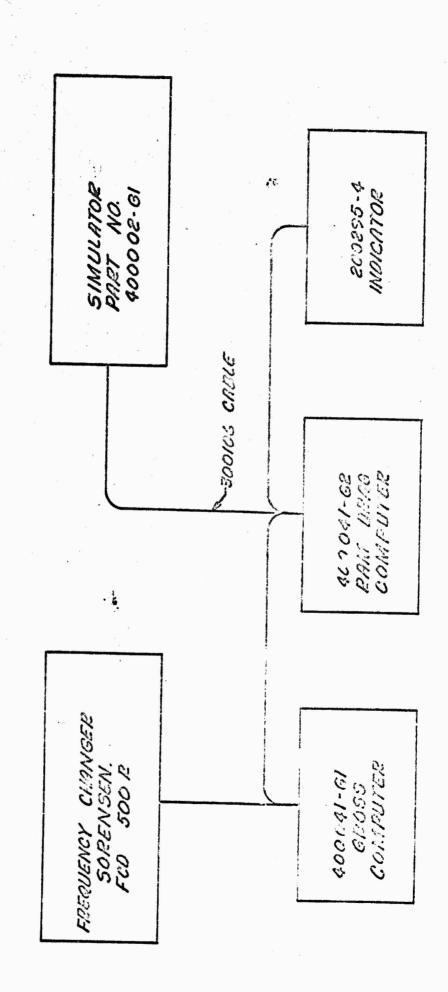
Percent:

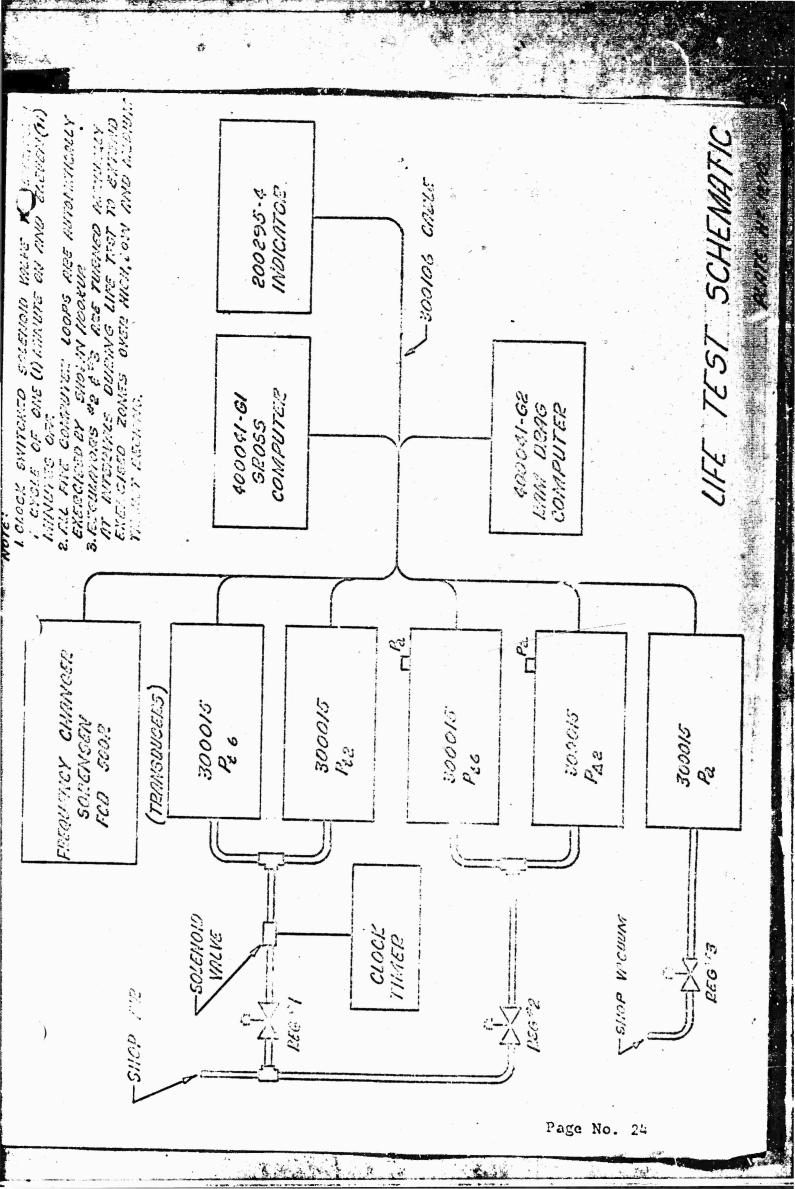
0.35 sec

5 ? Setup Schematics

The following noted setup schematics included herewith apply to the paragraphs noted.

Paragraphs	Test	Schematic							
1.2.1.1 & 1.2.2.1	Scale error	Plate 1269							
1.2.1.2 & 1.2.2.2	Friction error	Plate 1269							
1.2.2.3 & 1.2.2.3	Sensitivity	Plate 1269							
1.2.2.4 & 1.2.1.4	Response Time	Plate 1269							
1.2.2.5	Environmental Tests	Plate 1269							
1.2.2.6	Life Tests	Plate 1270							
File 860-M62N05-TR-lA Page No. 22									





TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttraen Avenue, Fort Wayne, Indiana 46804

5.3 Friction Error Test Comments

The friction error noted in paragraphs 1.2.1.2 and 1.2.2.2 is really friction plus backlash and was obtained by carefully approaching each test setting on the Telectro-Mek Part No. 400002-Gl Simulator first from the high side without overshoot, then later approaching the same settings from the low side without overshoot. The sensitivity test, on the other hand, was unidirectional and indicates friction (stiction) without backlash. None of the system was tapped or dithered during these tests so that this test was truly a worst case condition. Less error will be demonstrated in actual use.

5.4 Indicator Comments

The Indicator supplied under this contract is TMI Part No. 200295 and differs from the AEK-4 Part No. 700014 in that red lighting was required for this contract whereas the AEK-4 used white lighting. It was also found necessary to use diffuser block lighting, rather than the wedge lighting used in the 700014, in order to fully meet the lighting specifications. In the course of making such changes to accomodate the new lighting the following new parts were designed for the 200295 and constitute the differences between Part No. 200295 Indicator and Part No. 700014 Indicator.

Part No. Description

300100 Dial, Indicator

100161 Shaft Flexible

200300 Spacer Offset

File 860-M62NO5-TR-LA

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND. INDIANA LONG ISLAND CITY, N. Y. 2700 Nuttman Avenue, Fort Wayne, Indiana 46804

Part No.	Description
200286	Terminal Board, Indicator
200283	Spacer, Dial Face
200281	Post, Spacer, Front
200278	Shaft, Bearing Support

All other parts, i.e. counter, synchro, gearbox, motor, amplifier, solenoid, potentiometer, can, connector and other mechanical parts are equivalent to those used in the AEK-4 Part No. 700014.

PATA TAKEN AT HIGH TEMP

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Unt: 4/12/64 T	THE . QUAL DA	-	Richard Dahor
12.16.7	T 1500 HOL	11.	100011000
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								AL PROPERTY
	aujust:	Ton.	LINE VOLTE 400 CTS	PMC VTVC VOLTS	X6-20-3	⊕36-26-3 Thoust	OFF-26-3 NORMAL FLAG	
**************************************	Voltage	71	115	115		7 51	()	
%.0 ,2	N. W.	X	115	115	· 3 0	ι,	C	
3.3.3.		X	X	115	5.0	0	0	
3.3.4		*	X	115	40		O	
J. 305		X	. N	115	3.0	Ü	C	
3.3.6		Х		115	2.0	(.	· 0	The control
. F.	''	Х		115	1.0	Ü	Q.	. i
3.3.8		N	У.	115	0.0	, L	()	
3.3.0	11	7.	X	115	1.0	Ĭ	i	
3.3,10	11	λ .	X.	115	2,0		('	
3,3,11	**	- 1.	χ.	115	3.0		V.	
3.3.12	**).	5	115	7.0	1.1.	,	in.
3.3,13	11	X	2 X	115	50	()	1.	
3.3.14	F.	7/	115	115	ن.ن	÷,	\$ ×	
5 ()15	ABI toda	71	115	115		300°	(+	
5,3,16	11.0	Х	X	. 115		250°		
3.3.17		N.	::	115		200°	Ţ,	
3.3.18	11			115.		1500		
3.4.19	•	Х	::	115		100°	, U ,	
3.20		λ.		115	1.	500	0	
3.3.21	11	::	:	115		00	IJ	
3.3.22	!!	.::	>.	115		50°	(:	
3.3,23	11 "	X	•\(\cdot\)	115		1000		
3.3,54	* 1	·.		115		150°		
3. 5.25	* ·	1.	.:	115		2000		
3,4 96	ty.			115		250		
3.3.27		7/	115	115		300°	1	
3.3.28	Adres (d) M. Voltes	7/	1,15	115		1,	0	
3, 1.29	Zaro adj			115		<u>C</u>	+1 MILL	1
S. C				115		1,	- I MILL A	
3.7.31	Soit no	71	BZ	82		(;	1	
I (133°			21 .	21		(,		

Рајаста	SD		NOFECT	OR: -		Company of the second	***************************************
Thrust	AEK-4 « Thrust	AEK-4 NORFAL FLAG	AUK-A	Transa -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRIORIES.	IMITS
	ž.·ž	Х	· V			v	
	λ		V	5: 00	٥	3	· ico lbn
. 3	1.	4	L	8:7	0		2 50.3
7	: X	X	<i>L</i> ′	e 20	د		71:200
8	L X		· ·	4:03	0		-54±2°C
2	3 %	Χ		33.74	0	V.	
6	ę X		V	16,00	0	A	
- 6	:				0	:	•
16		,'.		1600	0	٥	riction curer limi
	<u> </u>			3:20	0	0	= ! scale
48	. ,	.,	****	4. 2.	0	0	error limi
	/.	15	<u> </u>	6:22	0	0	
	2.			8:00	0	. 0	
			<u> </u>	50.00	0	0	•
	120	,		25%	0		1 . 25±5°C
**************************************	80			10%	0		71.±2
	60			10/3	0	N	2" -54±2"
	40		<u> </u>			Y	
	20		· ·		0	X	
	0				0		•
₹. X	20	<u></u>	L	1/411	ىسىكىڭ د	C	
(2) (2) (2) (3)	40		U	10%	0	0	iction or limb
	60		1	e0/%	0	0	scale for limi
	80		7	30%	0	O	. OF LIMI
X.	100		V	00%	0	0	s i r /
	120		V	120%	O	0	
	X	·	V		٥		. COUL
	×		V	•	0	2	
	×				O		
	×				*		100 V
	X					Annual Control of the	13

TEST RECORD, AEK4(2001170 INDICATO

DATA TAKEN APTER HIGH TEMP DATE: 4/12/64 TIME: 10:00 AM IND. TN: 3

A Company of the Comp	ADJUST:	TEMP.	VOLTS & 400 CPS	RMS VTV: VOLTS	EGK-26-3	SGK-26-3 Thrust	Wis-16-3 NORMAL FLAG	*
**************************************	Voltage	25	115	115	O	O	o o	
3.3.2	8	Χ.	115	115	6.0	C .	C .	
3,3.3	,	Х	X	115	5.0	O	9	
3.3.4		X	X	115	40	0 -	O	- i j
3,3,5		Х	Х	115	3.0	O	Ö :	# 17
3.3.6		X	· X 🍦	115	2.0	0	0	1 10
3,3.7		X	X	115	1.0	0	O.	ing.
3.3.8		X	Х	115	0.0	0 ,	١.	11
3.3.9		Х	Х	115	1.0	О	0	
3,3,10		Х	Х	115	2.0	C	()	
9.3.11		Х	Х	115	3.0	C	0	
3.3.12		X	X e	115	4.0	Ü	Ü	2 T.V
3.3.13	H A	X ,	×λ	.115	5.0	0	U	, · (a,
Exercis	and the second s	25	115	115	4.0	0	8 .	
13 15	N N N	25	115	115	€.	300°	Ü	
B.ic		X	X	115		250°	0 "	
3.3.27		Y.		115		200°	Çî .	t its
3.3.16	· ·		Y	115	. I compared to the second control of the se	150°	:	
1.19	A MINISTER OF THE PARTY OF THE		· · · · · · · · · · · · · · · · · · ·	115	e e e e e e e e e e e e e e e e e e e	100°		
7.3.20	The first of the parties considerated			115	Aggin to the contract of the c	50°		
	na magazina da sana da		1		culture is to be provided and compared the test	00		
4.11.22	2 7 4			115		50°	4	
13.3.33		, i	<u> </u>	115	, i	100°		
3.3.24		1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	115	11	150°		
3.3.25		X		115 115 115	1	2000	17	
3/3:26	- "	Х	Х	115	i.	250	(,	
3.3.27		25		115	1	300°	0	
3.3.28	1.∯) . 13.j % Voltago	25	1.15	115		· ·	0	
3.3.29	Zero di	N.	X	115	1.7	0	+ 1 MILLA	
3.3.36	11		Х	115	O	0	-! MILL A	
3.3.91	Vol: o	25	83	83	į v	U	1	
$O^{1.35}$		A	20	20	Ü	0	1	
-	<u> </u>	حيسيب						195.7

REJECTED

INSPECTOR:

	AEK-4 Lbe Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL "FLAG	AEK-4 OPF FLAG	THE OR - ETTOAL	SCALE ERROR	FRICTION ERROR	Limits .
	X · X ·	x	X	L	Σ.	x	X	X
	76	. X .	Х	4	9600	0	Х	±300 jbn
	30 .	X	. Х	V	8000	0	X	1450 lbs
	14	, X	Х	V	6400	0	х	は71±2°C 連盟製
	48	Х	Х	~	4800	0	x	±600 lbs
	32	X	Х	V	3200	0	х	
	116	X	Х	U	1600	. 0	X	
	* 0	Χ -	Х	u	0	0	ж	
1	16	Х	X	v	1600	0	6	Friction
	132	X	X	L	3200	0	0	error limits
	. 48	X .	X	L	4800	0	0	error limits
	64	Х	Х	v	6400	0	. 0	•
	80	, X	Х	v	8000	0	0	
	196	; X	X ·	L	9600	0	0	•
	X	120	ж .	_	120%	0	Х	±1%-25±5°C
	SF X	100	Х	V	100%	. 0	Χ .	11}771±2°C
1	, X	80	х	u	80%	0	X	±27/9-54±200
	ϕ X	60	х	-	60%	0	Х	"
1	X	40	X	٠.	40%	0	Х	11
	X	20	Х	1	0%	0	Х	
	X	. 0	Х	V	3%	0	Х	
T	X	20	Х	V	20%	0	0	Vriction
	X	40	х	V	40%	0	0	error limits
	. X	60	Х	L	60%	0	0	= scale
	Х	80	Х	V	80%	6	٥	11
	X	100	х	U	100%	0	0	
	X	120	Y .	V	120%	0	Ö	
	·X	X	Normal	V	0	0	X	100M2
	X	X	Green	V	+1 1.1166.2	0	Х	,,
	X	i ×	rellow	L	·	0	X	•
	Х	X	Х	Junt	N	X	х	nder 100 VAC
,	*	×	X	Drop Just Rise	X	X	Х	ver 15 VAC

TELECTRO-MEK, INC.
TEST RECORD, AEK-4 (200117) INDICATOR
700016

DATE: 4/14/64 TIME: B:00AM IND. SN: 3 TESTE TESTER: ROShomps

·	adjust:	TEMP.	Line Volts 6 400 CPS	RMS VTVM VOLTS	ECK-26-3 F	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG	
3.3.1	Voltage	25	115	115	0	0	0	
3.3.2	8	X	. 115	115	6.0	O	0	1
3.3.3	Fg	X	X	115	5.0	0	0	
3.3.4	11	X	X	115	4.0	0	0	
3,3,5	11	X	. Х	115	3.0	0	0	
3.3.6		X	X	115	2.0	0	0	
3.3.7		X	X	115	1.0	0	0	
3,3,6		X	X	115	00	0	0	
3:3:9	1	X	X	115	1.0	0	U	
3.3.10	g Web.,	X	X	115	2.0	0	0	
3.3,11		X	X	115	3.0	O	0	1
3.3.12	11	X	Х	115	4.0	0	0 ,	
3.3.13	11	X	X	115	5.0	· O	0	
3.3.14	87	عاج	115	115	6.0	0	0	
3,3,19	HR &	25	115	115	Ü	300°	0	
3).16	. н	X	X	115	Ü	250°	0	
3.3.17	11	.х -	Х	1/5	0	200°	0	
3.3.18	12	X	Х	115	C	150°	0	
3.3.19	1:	X.	Х	115	C	100°	0	1
3.3.20	81	X.	Х	115	0	50°	0	Ĺ
3.3.21	11	Х	X	115	0	00	O	
3.3.22	!	χ.	Х	115	Ü	50°	U	
3.3.23	11	X	Х	115	Ú	100°	Ü	
3.3,24	. ft	X .	Х	115	0	/50°	()	
3.3.25	* 17	X	X	115	. 0	2000	0 .	
3,3,26	. 11	Х	Х	115	0	250	0	E
3.3.27	11	25-	115	115	0	300°	. 0	I
3.3,28	Zero Adj A Voltage		115	115	Q	U	0, '	
3,3,29	Zero Adj	X	X	115	C	0	+ 1 Min A	4
3.3.30	",	X	X	115	. 0	0	-1 MILLA	-
3.3.31	Voltage	25	83	83	0	0	()	1
3.3.32			- 20	20	0	0	0	

~	Rejecti		i de la companya di salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah s Barangan salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah	Inspecto	i. Ih	St.	ul.	
	Thrust	AEK-4. 3 Thrust	ASK-4 NORMAL FLAG	AEK-4 OFF FLAC	THEOR- ETICAL	SCALS ERROR	FRICTION ERROR	LIMITS
:	x	X	X	:	. X	X	x	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
	96	·x	X	1	9600	O	X	±300 lba
	180	X ·	X	1	8000	0	X	#25±5°C
i i	64	X	X	V	6400	0	Х	671±2°C
	46	λ :	Х	V	4800	O	X	-9-54±2°C
-4	362		Х	V	`3200	0	X	
- -	16	X	X	V	1600	0	X	•
- -	0	X	X	1	0	0	X	91
	16	Х	X	1	1600	0	0	Friction error limits
 -		· X	X	~	3200	0	0	= i scale
	48	X	X	/	4800	0	۵	error limits
	- 64	Х	X	<u></u>	6400	٥	σ	• •
- i -	88	; X	X	V	8000	0	0)
	96	Х	X ·	V	9600	0	0	
- -	X	120	Х	V	120%	9	X	±15-25±5°C
		100	×	~	100%	0	X.	±13 % 71±2°C
_	X	80	X	V	80%	0	X	±25/0-54±2°C
-	基件X:	60	Х	~	60%	0	X	**
	·他们X	. 40	X	V	40%	0	х	* 17th
	aik ∴ X	20	Χ.	V	20%	0	Х	**
	T X	10	X	V	0%	U	X	e Carl
-	X SIL	00	Χ "		20%	0	0	Friction
	44. X	40	Х	V	40%	0	0	error limits
-	X	60	Х	. ~	60%	0	. 0	* de scale error limits
-	X	1 10	X		80%	Û	0	
-	X	100	Х	-	100%	d	0	
-	X	120	Y.	1	120%	. 0	9	11
	X X	×	Mormal		n,	0	X	1/00M2
	Bar X	×	Green	1	+i ii ILLA	0	Х	11
	X	×	Yellow	-	- i wich A	O	Х	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	X	×	X	Just	Z	X	Х	Under 100 VAC
T	χ	· 人	X	Drop Just Rise	V	X	, Х .	Over 15 VAC

TEST RECORD, AEK-4 (200117) INDICATOR

DATA TAKEN AFTER VIBRATION TESTER: POStange DATE: 4/14/64 TIME: 12:30AM IND. SN: 3 ECK-26-3 ECK-26-3 ECK-26-3 RMS LINE Fg TEMP. % Thrust VOLTS # NORMAL. ADJUST: VTVM 400 GPS FLAG VOLTS O 3.3.1 0 Voltage 115 115 0 3.3.2 0 0 6.0 X 115 . 115 3.3.3 X σ U 5.0 115 3.3.4 0 4.0 15 3.3.5 X X 0 3.0 115 3.3.6 11 . X O 0 X 2.0 115 3.3.7 X 0 X O 1.0 115 3.3.8 X X 0 0 00 115 3.3.9 X X 0 O 1.0 115 3.3.10 X X 20 0 0 115 3.3.11 3.0 X X Ġ C 115 3.3.12 X X 4.0 0 O 115 3.3.13 11 5.0 X X 0 0 115 3.3.14 6.0 0 25 0 115 3,3.15 vRI tage 115 3000 0 25 Ü 115 3.16 2500 X. X C. 0 115 3.3.17 X X 2000 0 0 115 3.3.18 $\overline{\mathbf{x}}$ X 0 150° 0 115 3.3.19 X X U 0 1000 115 3.3.20 X X 500 0 1) 115 3.3.21 X X 00 O 115 3.3.22 X X 500 115 3.3,23 *1 X 100° X 115 3.3.24 .. 150° Y. X 0 115 3.3.25 X X 2000 3.3.26 X X 250 115 3.3.27 25 300 0 0 15 Zero Adj 3.3.28 115 0 115 & Volume 25 0 3.3.29 Zero Adj X X Ü 115 + 1 MILL 3.3.30 X X O 0

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83

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AN STORY

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3.3.31

3.3.32

Voltage

	REJECTE	لنا	· • · · · · · · · · · · · · · · · · · ·	NSPECTO	R: <i>Ll</i>	H.	_	
11 may 676 - 61	Thrust	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR -	SCALE ERROR	FRICTION ERROR	LIMITS
	X	· x	х			Х	X	X
1	1 96	X	x	1	9600	0	X	±300 lba #251500
	70	, X ,	λ	7	8000	<i>D</i>	X	±450 1bs
Ŀ	64	λ	Х	~	6400	0	Х	271±2°C ±600 1bs
	48	X	Х	~	4800	0	. X	9-54±2°C
L	1 32	Х	X	/	3200	U	Χ	
	16	Х	Х	/	1600	-0	X	u
		X	Х	V	Ü	O	Х	
Ŀ	16	X	X	V	1600	Ò	0	Friction
	32	X	X	1/	3200	0	0	error limits
	48	X	Х	V	4800	σ	6	error limits
	64	X	Х	1	6400	D	ð	•
i	80	Х	х	V	8000	0	0	••
_	96	Х	.Х	~	9600	0	0	**
1	X	120	Χ.	レ	120%	O	Х	±1%@25±5°C
:	, X	100	Х	~	100%	0	Х	±1½% 71±2°C
	X	. 10	X		80%	0	х	±2%0-54±200
	Χ.	60	Х	1	, 60%	0	Х	••
	Х	40	Х	/	40%	0	Х	11
	- X	20	X		20%	0	Х	n .
	: : X	0	Х	1	0%	0	Х	•
	X	00	. X	1.7	20%	٨	0	Friction
	. X	40	χ	1	40%	U	0	error limits
	X	60	Х	1	60%	0	0	= i scale error limits
	X	80	х	1	80%	0	0	error radres
	X	180	X	1	100%	0	σ	
-	X	120	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	120%	0	0	11
	: X		Normal	/	1	0	X	:100 M2
	X	<u>×</u>	Green	ارا	+i j.:KLA	0	Х	11
_!	X		Yellow			٥	X	11
İ	X		X	Just	X	Х	X	Under 100 VAC
- T	X	<u>×</u>	X	Brop Just Ride	,	Х	· X	Over 15 VAC

TEST RECORD, AEK-4 (200117) INDICATOR 7000/4

DATA TAKEN AFTER TEMP-ALT
DATE: 4/9/64 TIME: B:00 AM IND. SN: 3 TESTER: COSTUME

*****								41
7O:	adjust:	темр. С	LINE VOLTS & 400 CPS	RMS VTVII VOLTS =	EXIK-26-3 F	EGK-26-3 Thrust	SCK- 26-3 NORMAL FLAG	
3, 3, 1	Voltage	25	115	115	O	0	C	
3.3.2	1 X	X	115	115	6.0	O	0	10
3.3.3	P y	X	X	115	5.0	0	0 :	
3, 4	11	X	· X	45	4.0	O	Ó	
3.3.5	11	Х	Х	115	3 .0	O	0	
3.3.6	**	X	Х	N5	2.0	C	0	
3.3.7	. 11	х .	χ	115	1.0	Ü	()	
3.3.8		. X	X	1:5	0.0	0	C	
3.3.9	**	Х	Х	1.50	1.0	Ü	C	
3,3,10	11 ,	Ä	Х	115	2.0	υ ·	O	
3,3.11	11	Х	X	115	3.0		0	
43.3.12	. !!	χ	X	1.5	40	C	0	
3.3.13	11	Χ.	X	115	3.0	O	0	
3.3.14	17 .	25-	115	115	6.0	O	0	
30 15	li k VRLtage	25	115	,75	0	300°	O	
3, 5, 1,6	Н	χ	Х .	115	·	250°	0	
3.3.17	11	х	Х	115	+ <i>C</i> ;	200°	0	
3.3.18	11	X .	Х	115	6	150°	0	
3.3.19	. 11	λ	Х		Ċ	100°	C	T, iL
3.3.20	1.	Σ.	X	15	17	50°	0	
3.3.51	11	Х	Х		Ü	0°	t	
3.3.22	11	X	Х	115	ن	50°	(:	ļ
3,3,23	11	Х	Χ	. 115	ζ.	100°	()	
3.3.24	''	Х	Х	115		150°	()	
3.3.25	11	Х	Х	115	ί.	2000	0 .	
3.3.26	11	Х	Х	1/5	(·	250	0	
3.3.27	,	25-	115	115	· ·	300	0	-
3.3.28	Zero inj & Voltage	25	11.5	113	,	U	0	
3, 3, 29	2ero ij	7.	"	115	•	0	+1 MILLA	1
.3.3.50	1.		Х	115	. ;	Q.	- 1 Mul A	-
3.3.31	Vol.taga	25	83	83	Ü	U	(.	
3(37		X	20	20	· ·	0.		
			and the state of t				4 . 444.4	

	REJECT	سا 			in dela			
	CK-4 Se Thrust 6/00	ΛΕΚ-4 % Thrust	ASK-4 NORMAL FLAG	AIN -4 OFF FLAG	J EQQ-	SCALE ERROR	FRICTION ERROR	LIMITS
	X	i X	х		X	X	x	X
-	196	X	х		5600		Х	±300 1bs
-	80	, ,	X		£ 600	0	X	#450 1bs
	64	Ä	X	V	6400	0	X	71±2°C
	48	X	Х	/	4.800	0	х	±600 1bs
	32	- X-	Х	V	3200	0	Х	**
	16	X	X	-	1400	0	X	11
	O	Х.	Х	~	, 0	0	Х	11
	16	Х	Х	V	1500	ð	0	Friction
	32	, X	Х		3300	0	0	error limite
,	48	X	.:	~	4300	0	Ó	orror limit
	164	У	- 3	V	6100	0	0	,,
	80	Х	Х	V	8:100	D	0	,,
-	196	X	Х	V	9300	0	0	41
	X	120	Х		120%	Ô	Υ.	±150-25±5°C
	X X	100	23	4	100%	0	X	±11 071 ± 2°C
	THE X	80	X	1	80%	0	Х	12%-54±2°C
-	X	1	X		, 00%	0	X	1.
	X	60	X		40%		X	**
	X	40	$\frac{x}{x}$	-	20%	0	X	11
Y	X	00	X	100	0%	- 0	A X	
	X	30	X	- (20%	0	O	
	X	40	Х	4	40%	0	a	Friction error limits
	X		X	22.	60%	0	0	= d scale
	X	60			-	0	ð	error limits
	X	80	Х	4-	80%	0	i i	•
	X	120	X	<i>l</i>	120%	0	0	••
	X		£'			0	Y	
	X	<u>×</u>	Normal	-	0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	±100M2
	X	<u> </u>	Green	-	+17. K. 4	0		,,
	X	 ×	rellow	Just	-1 341			
	À	×	.:	bron	` .	X	.:	wer 100 VAC
-		\	X	Just Char	N.	Z	X	mr 15 VAC

TELECTRO-MEK, INC.

TEST RECORD, AEK-4 (200117) INDICATOR 7000/4

DATA TAKEN AFTER SHOCK

DATA: 4/12/14 TIME: 2:00 PM 1:10. 11: 3 TESTER: Phylompse

				-				
eyr:	adjust:	TEMP.	LINZ VOLTS (1 400 CPS	1213 VTV) VOLTS	WK-20-3 F _E	FGK-26-3 Thrust	97K -26-3 NORMAL FLAG	
3 3.1	Voltage	25	115	115	O	0	C	
3.7.2	8 X	χ.	115	115	6.0	•	Ċ	
3, 1, 3	F	Á	X	115	5.0	O	0	H
3,3,4		Х	X	115	4.0	Ü	O	П
3 3,5	91	X	Х	115	3 .0	U	0	
3.3.6	11	Х	X	115	2.0	Ο,	0 .	П
3.3.7	9.	Х	Х	115	1.0	G	G	
3,3,8	f•	`	Χ	115	0.0	O	C	
.3.3.9	11	7,	Х	115	1.0	Ú	('	
3.3.10	71	Х	X	115	2.0	С	0	
3,3,11	11	Χ	Х	115	3.0	(•	· O	
3.3.12	11	Х	χ	115	4.0	C	U	
3,3,13	. 11	Х	Χ	115	5.0	O	Ci	
3.3.14	11	25	115	115	6.0	(i	O .	
3 3 15	ugltage	25	115	115		300°	0	
3.16	H,	X	X .	. 115	(1	250°	0	
3,3.17	11	Χ	X	115	i	200°	C	
3.3.18	11	Х	Х	115	(i	150°	0	
3.3.19	•	X	Х	115	١.	100°	C	
3.3.20	,,	У.	Χ	115		50°	0	
3.3.21	11	Х	X	135		00	ن	
.3.3.22	11	X	_X _	115	ť	50°	(,	
3.3.23	11	X	Х	115	Ü	100°		
3.3,24	1,	7.	Y.	115	Ç.	150°	(
3, 3, 25	11	Х	Х	115	(+	2000	• .	
3, % 26	11	::.	Χ	115	(,	250	(1	
3.3.27	1,	25	115	115		300°	()	
3. 4.28	lero Adj ≿ Voltago	25	115	11	į.	U	0	i
3.3.29	Mero Adj	入	X	95"	:	U	+ / Mice A	
3 5.30	1.	Х	Х	25	11	U	- 1 MILL A	
	Voltage	25-	83	4*3	(,	U	€.	
₹ 2.32	1 *		20	(25)	1:	Q.	(.	

EEJECTED INSPECTOR:

AEK-4 Lbs Thrust X/00	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR - ETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
	x	Х		Σ	X	х	X ·
96	X	Χ	مسيا	9600	0	Х	±390 1bq
86	Χ	À	1	8600	0	Χ	±450] bs :
64	X	Х		6400	0	Х	71:200
48	X	Х		4800	0	Х	2600 lbs
32	X	Ж	w	3200	0	X	7
16	X	Х	v	1600	σ	Х	#1 •
0	Ж	Х	V	()	0	X	** **
, 16	Х	X		1600	0	0	Friction II
32	Х	. X	~	3200	0	٥	error limits = 1 scale
48.	X	Х	_	4800	0	0	error limits
64	Х	Ж	سا	6400	0	٥	**
* 80	X	Х	L	8000	0	0	71
96	X	χ	L	9600	٥	Ò	••
X	120	Х	L-	120%		χ	±1%025±5°C
Х	100	X	2.	100%	Ü	X	±14%71£2°C
Х	80	Х	i v	80%	ò	Х	±270-54±2°C
.:	60	Х	_	60%	0	X	11
X	40	X	_	43%	0	Х	FI
1 1	20	Х	-	20%	U	Х	**
Х	0	X	L-	0%	1)	V	
X	20	Х		20%	O	ò	Friction
X	40	X ·	<u></u>	40%	0	O	error limits
, 5:	60	X	سد	60%	O	0	= ! scale error limits
. X ·	80	Х	V	80%	0	0	11
χ	.100	Х	L	100%	0	. 0	
λ	120	.,		120%	0	U	
Σ.	Х	Normal	س	ถ	0	Х	:100 UZ
Χ.	X	Green	L	+i i.il.L.A	O	Х	
Х		iellow	L-	-, 4	O	Х	,
X	~	Y	Just bres	Х	Х	Х	Under 100 VAC
1	×	X	Prof.	X	X	X	Over 15 VAG

TELECTRO-MEK, INC.

TEST RECORD, AEK-4 (200117) INDICATOR

DATE: 4/12/64 TIME: 11:00 AM IND. SN: 3 TESTER: PO Showpson

								-
77 ¹ :	adjust:	TEIP.	LINE VOLTS (* 400 CPS	RMS VTVH VOLTS	ECK-26-3 F	ECK-26-3 Thrust	FCK-26-3 NORHAL FLAG	
3 3.1	Voltinge	25	115	115	O	0	e ·	
5.3.2	8 4	X ·	115	115	6.0	O	С	Ţ
3.5.3	P	Х.	X	115	5.0	0	0	十
3.3.4		X	Х	115	4.0	0	Ö	T
3,3,5	£ ,"	X	Х	115	3.0	O	٥٠	\coprod
3.3.6	11,	X	Х	115	2.0	С	0	T
3.3.7		X	Х	115	1.0	U	O	I
3.3.8	11	X	Х	115	0.0	0	C	T
3.3.9	11	Х	Х	115	1.0	0	C	I
3.3,10		χ	Х	115	2.0	0	O	\mathbb{I}
3,3.11	11	X	X	115	3.0	(;	0	T
3.3.12	,,	X,	Х	115	4.0	C	C S	I
3.3,13	11 .	х	X	115	50	O	O	
3.3.14	,.	25	115	115	6.0	0	0	
2.3,15	JRI tago	25'	115	:15	Ü	300°	0	T
3.3.16	H	X	Х	115	Č	250°	r	
3.3.17	11	X	Х	115	Ü	200°	0	T
3.3.18	11	Х	Х	115	C	150°	. C	T
3.3.19	7,	X	Х	115	C	100°	С	T
3.3.20	11.	Х	Х	115	t)	50°	0	T
3.3.21	11	X	Χ	115	Ú	00	O	I
3.2.22	"	Х	Х	115	0	50°	O	T
3.3.23	11	X	Х	115	U	100°	,()	
3.3,24	11	У.	Х	115	O	/50°	(1	1
3 3.25	11	Х	Х	115	6	2000	0.	I
3.3 26	11	Х	Х	115	C	250	ด	Γ
3.3.27	11	25	115	115	0	300°	· '0	I
3.11.28	Lero Adj & Maltoge	25	115	115	1,	U	0	
3 3.21	Jaro 12	Х	Х	115	(1)	O	+1 Mil A	I
3,2,30	11	X	Х	115	U	0	-1 MILLA	I
2.3.31	Voltage	25	83	83	Ü	U	O	
6 3.3	7	Х	25	20	n	70	G .	T

-	REJECTE	لينا	# - 1, - 1 h.	INSPECTO	R. S.	14	<u> </u>	
	AEK-4 Lbs Thrust X/00	AEK-4 3 Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR- ETICAL	SCALE ERROR	Friction Error	Limits
	X	x	х		Х	х	х	X
!	96	X .	Х	L-	9600	0	X	±300 lbs
	50	X	X	1-	8600	٥	X	2450 lbs
	64	X	Х		6400	٥	Х	271±2°C
1	48	X	X		4800	O	X	9-54±2°C
	32	Х .	X	U.	3200 .	0	X	
	16	Х	. х	60	1400	0	X	
	U	X	X	~	()	۵	Х	•
	16	X	X	سما	1600		0	Friction
	∰. 3 ≥	X	X	س	3200	0	٥	error limit
1	48	X	X	U -	4800	٥	0	error limit
	61	X	Х	سا	6400	0	٥	
	80	X	х	L-	8000	0	O	•
	96	Х	Х	~	9600	0	٥	z • ••
	X	120	Х	-	120%	Λ	X	±1%-25±5°C
	Na X	1.00	Х	سا	100%	٥	X	±13 71±2°C
	ing a x	80	x	-	80%	٥	X	+25.7-54±2°C
1	X	60	Х	-	, 60%	0	X	"
1	X	40	' X		40%	0.	X	1" ***
-	ac' X	20	X		20%	Ö	X	11
-	X	: 0	X		0%	0	X	•
	X	20	Х.	1-0-1	20%	U	Ü	riction
	:• X	: 40	Х	-	40%	U	ø	error limit
	14 X	60	х		60%	6	0	scale
	X	50	. X	-	80%	0	O	error limit
	Y.	100	X	-	100%	0	٥	••
I	X	130	ı .	<i>V</i>	120%		0	
1	X	×	Mormal	-	0	6	X	-100MZ
1	X. X.	×	Green	-	+i iv.ILLA	0	х.	11
丁	γ. X.	×	Tellow	~	-: :: :: 4	٥	X	
1	id. A		X	Just	X	Х	X	
-	100	<u> </u>	'	Lres Just	X	X	X	Chier 15 VAN
		 ×	, "	1.6.3		.,		Cver 15 VAC

TELECTRO-MEK, INC.
TEST RECORD, AEK-4 (200117) INDICATOR
700014

D.YTE:	MTA TAK	en pr Time: _	10 R TO	TEMF Ind. Sn:	-Aut	TESTER:	Whomps	
Ö	adjust:	TEMP.	LINE VOLTS & 400 CPS	RMS VTVH VOLTS	ECK-26-3 Fg	BGK-26-3 5 Thrust	eck-26-3 Normal Flag	
3.3.1	Voltage	25	115	115	0	0	0	\prod
3.3.2	Fak	X	115	115	6.0	(1	ć	\sqcap
3,3.3	ę.	X	X	115	. 5.0	0	0	+
3.3.4		X	Х	1/5	9.0	0	0	+
3 3,5	11	X	X.	115	3.0	0	0	
3.3.6		X	Х	115	2.0	0	0	
3.3.7	11	X	у Х	115	1.0	U	0	
3.3.8	11	X	χ	115	0.0	0	Ċ	T
3.3.9		X	Х	115	1.0	0	C	
3.3,10	11	X	Х	15	2.0	0	0	
3:3.11	**	X	χ	115	3.0	0	0	
3.3.12	1	Х	Χ	. 115	4.0	G	. С	
3.3,13	31 200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	X	X	115	5.0	0	O	
3.3.14	11	25	.115	115	6.0	Û	0	
3 3 19	11 Altino	25	11.5	115	(,	300°	0	
\$.16	H	X	y.	115	G	250°	0	1.
3.3.17		X.	X	115	G	200°	0	
3.3.18	11	X	Х	115	C	150°	C	
3.7.19		λ	X	115	Ċ	100°	0	
3.3.20		X	Χ	115	1.3	50°	0	I
3.3.21	11	Х	Х	115	Ci	00	()	1
3.3.22)	Х	X .	115	0	50°	G	+
3.3,23	11	X -	X	115	, ,	100°	()	٦.
3.3,24	**	Χ	Х	11	0	150°	('	4
3,3.25	11	Х	Х	11:	- G	2000	()	4
3,3,26	11	Х	Х	11500	Ç.	250	Ü	4
3.3.27	?ero Adj	25	115	115	()	300*	<u> </u>	+
3.3.28	& Voltage		115	115	U	Ü	0	
3.3.29	Zaro Adj	X	X	115	C	0	+ 1 Hout	+
3,3,30	**	Х	Х	115	()	0	-1 MILLA	+
3.3.31	Voltage	25.	83	83	U	0	()	1
3,3,32		X	20	i ² 6	(,	0	C	

REJECTED

INSPECTOR .

Lil								
nadi y i dannya	AIK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	aek -4 Off Flac	THEOR - ETTCAL	SCALE ERROR	FRICTION ERROR	LIMITS
	· X	. X	х		Х	х	x	Y.
	96	х .	х		9600	ø	Х	±300 lbn
	80	X	X	V	8000	0	X	925±5°C 1 ±450 lbs
	64	X	Х		6400	0	Х	071±2°C
	48	X	Х	1	4800	0	x	2600 1ba
	_دی	·X	Х	I	3200	D	X	
	16	X	· X	~	1400	ò	Х	
	. 0	X	Х	4.0	0.	0	Х	
	16	Х	Х	1	1600	٥	0	Friction
	22	Х	Х	L.	3200	0	0	error limits
	- 48	X	Х	"	4800	0	ď	error limits
	64	X	Х	L'	6400	λ	0	•
	80	Х	Χ	~	8000	0	0	
	96	Х	Х	V	9600	0	0	
	X	120	X	V	120%	٥	X	11792515°C
	X	100	X	-	100%	D	Χ	±135071±29d
	X	80	Х	1	80%	0	X	±29/5-54±2°C
H	X	60	Х	-	60%	0	Х	
	X	40	Х	/	40%	0	Х	
H	X	20	Х		20%	0 -	Х	"
	X	۵	Х		. 0%	∂	X	ئى ئىدىنىدىنىدى ئىدىنى بىدىنى ئىدىنى
	. Х	એલ	Х	4	20%	0	0	Friction
	X	40	X	lu-	40%	O	0	error limits
	X	60	Х	نست	60%	G	0	= ½ scale error limits
	X	Po	Х	·	80%	J	d	ii.
	X	100	Х	レ	100%	v	ð	
	X	120	Y	レ	120%	0	Ö	
	, x	· ×	Normal	_	0	0	х	_100HZ
1	X	The second liverage and the se	Green	-	+i AILLA	ø	X	"
	X		Tellow	-	-: 11126 A	0	Х	10
	X	>	Χ,	Just		X	x	Under 100 VAG
	χ	X	Х	urop Just Kise		x	х	Cver 15 VAC
-	The state of the s	TELE	TO A MEN	7		7		1 2000.75

TEST RECORD, AEK-4 (200117) INDICATOR 700014

DATE: 4/13/64 TIME: 11:30 AM IND. SN: 3

HUE LOS							
1()r:	adjust:	TEMP.	Line Volts @ 400 CP\$	RMS VTVII VOLTS	ECK-26-3 Fg	50K-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3,3.1	Voltage	25	115	115	U	0	O
3.3.2	Fg. N	X	115	115	6.0	0	0
3,3,3	Pg	X	X	115	5.0	0	0 .
3,3,4	P1	X	Х	115	1.0	0	0
3.3.5	. 11	X	Х	115	3.0	0	0
3.3.6	11	X	. Х	115	2.0	0	0
3.3.7	fi	X	Х	115	1.0	0	0
3,3.8	11	X	X	115	00	0	C
3.3.9	81	X	X	115	1.0	0	O - Id
5.3.10	11	X	Х	115	2.0	0	0 .
3,3.11	11	Х	X	115	3.0	0	0
3.3.12	91	X	Х	115	4.0	0	O '
3.3.13	91	Х	X	115	5.0	0	O
3.3.14	i •	25	115	115	6.0	0	0
77.15	V81 toge	25	115	115	Ü	300°	0
3.3.16	н	x	Х	115	O.	250°	0
3.3.1	11	Х	Х	115	0	200°	0
3.3.10	11	Х	Х	115	Q	150°	C
3.3.19	91	Х	Х	115	0	100°	С
3.3.20	11	Х	Х	115	0	50°	Ô
3.3.21	11,	Х	Х	11.	0	0°	υ .
3.3.22	11	Х	Х	115	O	50°	Ü
3.3,23	11	Х	Х	115	0	100°	O
3.3.24	**	, X	Х	115	0	150°	O
3.3.25	11	Х	Х	15	0	2000	υ.
3,3,26	†1	X	Х	//5	0	250	O
3,3,27	11	25		15	0	300°	0
3.3.28	Zero Adj & Voltage	حن	115	115	0.	U	0
3,3.29	Zero Adj	Х	X	115	0	0	+ 1 MILL A
3,3,30	11	Х	X	115	0	0	- 1 MILLA
3.3.31	Voltage	25	B	13	0	0	0
1 3.32		X	20	ಎ	()	0	Ο,

INSPECTOR: Still Have

		第1							
	:	AEK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR- ETICAL	SCALE ERROR	FRICTION ERROR	Limits
		×	x	х		X	х	X	X
		96	Х .	X	~	9600	0	х	±300 lbs 025±5°C
	÷	80	X	X	/	8000	0	X	±450 lbs
		64	Χ.	х .	/	6400	0	χ	271±2°C
		48	X	Х	V	4800	0.	X	ώ-54±2 C
		32_	X	Х	~	3200	0	X	
	-	16	X	Х		1600	0	X	••
		0	X	Х	4	0	0	Х	11
14	-	16	Х	Х	V	1600	0	0	Friction error limits
		, 32	Х	Х	1	3200	0	0	= 4 scale
		.48	X	Х		4800	0	0	error limits
		. 64	i X	Х	10	6400	0	0	•
		80	+ Х	Х	V	8000	Q	0	# € 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1
		m.c.: 96	Χ̈́	X	<i>'</i> ~	9600	C	0	11
		,	120	Х	1	120%	0	X .	±1%@25±5°C
	•4	Х	100	Χ.	1	100%	ð	X	±14%71±2°0
		9 X	80	Х		80%	0	X	1270-54±2°0
	*	X	60	Х	~	60%	0	X	"
	-	Х	40	X	1	40%	0	Х	11 11
		X	20	х	W	20%	0	Х	**
	, -	λ	0	Х	~	0%	0	Х	•
	· ·	X '	100	Х	L	20%	ن	0	Friction
		. X	: 40	Х	W	40%	0	0	error limits
		X	60	х	w	60%	0.	0	= ½ scale error limits
		; X	80	Х	~	80%	0	0	11
	!	Х	100	Х	1	100%	d	0	
		χ	120	Y.	سن	120%	٥	0	
		· X	×	Normal	-	O.	0	х	-100M2
		λ	×	Green	-	+i WILLA	0	χ	"
		λ	. X	Yellow	4	- 1166 4		Х	
		X	X	X	Just Drop	,	X	X	Under 100 VAC
			×	X	Just Kias		Х	X	(ver 15 VAC
			TELEC'	TRO-MEK,	INC.	7,	001175	INDICATOR	300075

TELECTRO-MEK, INC.
TEST RECORD, AEK-4 (200117) INDICATOR
7000/4

🎍 i i 🗝 je sa i i i	ant airt	~ .	· · · · · · · · · · · · · · · · · · ·			3.		
	DATA TAK				\ 2	mpompo d	Symologic	
DATE	4/14/64	TIME: 4	30411	IND. SN:		rester: Y	monite	~
TO	ADJUST:	TEMP.	LINE VOLTS & 400 CPS	RMS VTVH VOLTS	ECK-26-3	ECK-26-3 % Thrust	eck-26-3 Normal Flag	
3.3.1	Voltage	-54	115	115	O	0	0	: :
3.3.2	Fg &	X	115	115	6.0	O	0 .	
3,3.3	Pg	Х	X	115	5.0	0	0	1
3.3.4	11.1	X	х .	115	4.0	0	O	
3.3.5	01	Х	X	115	3.0	0	0	
3.3.6	£1	Х	Х	115	2.0	0	0	
3.3.7	. 11	Χ.	Х	115	1.0	0	0	
3.3.8	11	X	Х	115	00	0	U	
3.3.9	11	X	Х	115	1.0	0	0	i.
3.5.10	11	X	Х.	115	2.0	0	0	:
3.3.11	11	Х	X	605	3.0	O .	0	
3.3.12	11	Х	Х	115	4.0	C	O :	
3.3.13	•	Х	х	115	5.0	v	C	1
3.3.14		-54	115	115	6.0	0	0	
3.3.15	li & VELtage	-54	115	115	O	300°	0 -	
3.3.16	H	X	Х	115	Ĉ	250°	0	1
3.3.17	11	X	х	115	. C	200°	0	
3.3.18	11	X	Х	115	0	150°	0	
3.3.19	11	X	Х	115'	O	100°	0	
3.3.20	7,	Х	Х	115	0	50°	0	
3.3.21	11	Х	Х	115	0	00	0	
3.1.22	11 4	х	Х	115	0	50°	0	
3.3,23	11	Х	Х	115	Ú	100°	0	_ _
3.3.24	11	Х	Х	115	0	/50°	(1	i
3,3,25	f!	Х	X	115	0	2000	G .	
3 3.26	, 11	X	Х	115	0	250	(i	1
3,3,27	11	-54	115	115	O	300°	C	
3.3.28	Nero Adj a Voltage	-54	115	115	0	Ü	0	
3.3.29	Sero Adj	Х	Х	115		0	+1 Mus A	
3.3.30	"	X	Х	115	О	0	- 1 MILL A	
3.3.31	/oltage	-54	8/	81	0	0	Ċ	2000
3 3.32	-	χ			0	0	0	+

24

REJECTED

INSPECTOR:

Mitthe

	AR-4 Lbs Thrust X100	ÆK−4 ‰ Thrust	AEK-4 NORMAL FLAG	AEK-4 OPF FLAG	Theor- etical	SCALE ERROR	FRICTION ERROR	LIMITS
<u>:</u>	2	×	х	· /	>	х	X	X :
-	96	Х	X	1	9600	0	X	±300 lbs
-	80	X	X	V	8000	0	X	25±5°C
-	64	X	Х	V	6400	Ü	х	6-71±2°C
	148	X	Х	V	4800.	0	X	±600 lbs
+	32_	X	Х	V	3200	0	Х	n
	進わ	X	Х	~	1600	σ	Х	99
-		1 X 1	Х	~	>	O	Х	n i
-		Х	χ	~	1600	0	0	Friction error limits
; .	\$ 32	Х	Х		3200	0	0	= d scale
-	48	Х	Х	V	4800	()	. 0	error limite
;	(s)	Х	Х	V	6400	0	0	•
	63	Х	Х	V	8000	6	0	, 10
	96	. X	X	V	9600	G	δ	, ,,
		120	Х	-	125%	0	X	±1%025±5°C
,	. X	100	7,	~	100%	٥	X	±1}%71±2°C
 -	Х	80	X	V	80%	δ	X	±27/0-54±2°C
-	X	60	Х	س_	,60%	δ	Х	11
+	_i }, X	40	Х	4	40%	Ŋ	΄ Χ	11
-	X	20	Х	' من	20%	C	Х	•
	X	0	Х	_	0%	0	Х	• •
-	Х	. 20-	. · X		20%	• • • • •		Priction
-	Х	40	χ	/	40%	Ò	٥	error limits scale
-	X	60	Х	<u> </u>	60%	0	0	error limits
-	X	80	Х	V	80%	0	0	1· ·
	X	100	Х	V	100%	Ó	0	**
-	X	120	ý.	V	120%	٥	ď	
-	, X	*	Normal	L	()	0	X	=100M2
-	X		Green	-	+i ivilla	0	Х	11
-		×	Yellow	سيا	11.LA	٥	<u> </u>	
	λ	: X	X.	Just Drop	X	X	Х	Under 100 VAC
A		· ×	χ	Just	٧.	X	Х	Over 15 VAC

TELECTRO-MEK, INC.

TEST RECORD, AEK-4 (200117) INDICATOR

.700014

DATA TAKEN AFTER - SAND, DUST, + SALT SPRAY
DATE: 5/13/64 TIME: 5:30ANXMTR SN: 1000 TESTE TESTER: Bush

The Park Co.							
r.T.	ADJUSTi	TEMP.	LINE VOLTS & 400 OPS	RMS VIVM VOLTS	Manometer "Hg	BAROMETER ''HG	TOTAL ''HG
13.1	Fressure & Voltage	25	115	9	108.00	29.25	/08
2.3.2	W	X	Х	10	121.00	X	121.00
2.3.3	Pressure carefully	x	X	9	108.01	X	108.01
2,3,4	g (1. 11 ₁₎	X	X	3 .	96.14	X	96.14
1.3.5		X	. x	7	84.25	Х	84.25
1.3.6	gradienie ge	X	X	ს	72,30	X	72,30
1.3.7	11	X	X	5	60.60	х	60.60
1.3.8	11	x	х	4	48.30	X	48.30
1.3.9	T 11	X	х	3	36,25	X.	36,25
1.3.10	tř	x	х .	2	24.40	X	24.40
1,0,11	11	X	X	1	12,35	X	12.35
1,3,12	11	Х	X	l	12.30	Х	12.30
1.3.13	**	х	х	2	24,25	Х	24.25
1,3,14	- 11 .	X	x	ર	36.40	X	36.40
1.3.15	n	Х	X	-	48.40	X	48.40
1.3.16	iı	X	x	5	6050	X	60.50
1,3.17	11	х	χ .	(,	72.35	Х	72,35
1:3.18	. 11	х	Х	7	84.25	X	84.25
1.3.19	ÍI	х	х	3	94.15	Х	96,15
1.3.20	11	х	, X	9	10.8.00	X	108.00
1.3.21	,i	25	115	10	120.80		120.80

ACCAPTED REJECTED

INSPECTOR:

film fine

THEOR- ETICAL 'Hig	SCALE ERROR	Limits	NOTES	FRICTION EDROR	LIMITS	COMMENTS
X	Х	X	х	Ä	х	
120	+1.00		Х	Х	х	
108	+.01	11.2" (1) 25 ±5°C	Do not overshoot	χ	Х	
. 96	+.14	180±5°C.	b)	X	Х	
84	1.25	180±5°C, ±1.3" @ -54±2°C	t!	X	Х	
72	4.30	. "	:•	X	X	
60	4.60	11	t*	Х	x	
48	4.30	**	•,	i,	х	
35	t.25	71	١٠	Υ.	х	
24	+.40	,,	1.	X	Х	
1?	4.35	**	t.	::	X	•
12	+130	*1		.05	± , 6" 3	1
24	t.25	**	,.	,15	25 ± 5° 3	•
3 6	+,40	11	1.	'.15	180 ± 5° C,	•
48	4:40		 1/11	,10	- 54 ±2⁰ C	
60	4,50	•1	F s	.10	10	•
72	+,35	11	1.	.05	11	
84	t.25	11	11	0	11	
398	×115	11	17	.01	11	
108	0	11	. ,,	.01	17	, 7
120	+.80	11	11	,20	**	

TELECTRO-MEK, INC.

TEST REGORD, TRK-52-1 (300015-2) XMTR

300076

DATA TAKEN AT HIGH TEMPERATURE
1000
1001 TUSTER: Coshimpson

Test:	ADJUST:	TEMP. C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	Manometer "Ho	BAROMETER THG	TOTAL "HG
1.3.1.	Pressure & Voltage	180	. 115	9	108.00	29.15	108
1.3.2	. 11	X	Х	10	120.45	X	120.45
1.3.3	Pressure carefully	X	х	ŋ	108.30	Х	108.30
1.3.4		х	Х	:	96.40	X	96.40
1.3.5	ıt	X	х	7	84.50	Х	84.50
1.3.6	- 11	х	Х	U	72.35	X	72.35
1.3.	1.	х	χ.	۲	60,35	х	60.35
1.3.8	1:	x	Х	:4	48.35	Χ̈́	48.35
1.3.9	11	x	Х	}	36,40	Х	36.40
1.3.10	11	X	х .	7	24.60	X	24.60
1311	11	Х	Х	j	12.70	Х	12.70
1.3.12	•1	х	X	<u>L</u> '	12.70	Х	12.70
1,5.13	f 1	х	X	2	24.50	Х	24.50
1.3.14	11	Х	X	4	36.20	X	36.20
1.3.15	H	Х	X	J	48.10	Х	48.10
1.3.16	11	X	Х	j	60.15	Х	60 .15
1,3,17	11	х	х		72.10	X	72.10
1.3.18	l!	х	. Х	7	84.20	χ.	84.20
1.3.19	11	Х	х	3	96.15	Х	96.15
1.5.20	11	Х	X	9	108.15	X	108.15
1.3.25	••	180	115	. Ü	120.20	29.15	120.20

ACCEPTED REJECTED

INSPECTOR:

	_	
200		
All Shirt	4	
Market State of the same	-	-

	THEOR- ETIGAL '71G	SCALE ERROR	LIMITS	NOTES	FRICTION St. OX	LIMITS	Comments
Address of the same of the sam	j Z	X.	χ	x		x	
5	120	+.45	x	Х	ς.	X	
P	108	+.30	25 ±5°C	Do not overshoot	A	Х	
0	96	4.40	1604500	۳	·	х	u. i
<u> </u>	84	+,50	160±5°C, ±1.8" C -34±2°C	**	, <u>/</u>	Х	
	.72	7.35	117	· !).	х	New York
	10	+,35	11	.,	.,	Х	1
5	48	+.35	Ü	٠,	•	Х	
٥ .	36	7.40	11	• • • •	1	Х	
9	24	r.60	11	**		Х	
	12	+.70	,,	11	,	X	1. A. A. A. A. A. A. A. A. A. A. A. A. A.
	12	r.70	* 1	.,	0	±,6" } 25 ±5°0	
2	24	7,50	D	* *	.10	25 ±5"3 180 ± 5° C,	
2	36	+.20	1.	. 1	.10	! , , , .	
2	48	+:10	41.	•		- : 14.1 3.9 C	
5	60	+:15	1.	• •	.25		
9	72	+:10	*1	1.	.20	:•	
0	84	+,20	. 11	**	.30		
5	96	1.15	* *	11	.25		
	108	t.15	* **	,.	.15		
	120	+;20	••	1.	.25		

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-2) XMTR

DATA TAKEN PRIOR TO SAND, DUST, + SALT SPRAY

ATE: 3/10/64 TIME: 5:00 7 XMTR SN: 1000 TUSTER: BOShampson

ADJUST:	Temp. C	LINE VOLTS & 400 CPS	RMS VTVM VOLTS	HANOMETER "HG	BAROMETER 'HG	TOTAL ''HG	1
Pressure & Voltage	25	115	9	108.00	29.05	108	
11	X	X	10	120.90	X	120.90	-
l'ressure carefully	X	х	9	108.00	X	108:00	-
e1	X.	Х	3	96.20	Х	96.20	-
11	X	x	7	84,30	Х	84.30	
	×	х	G	72.30	X	72.30	-
	х	x	5	60.40	X	60.40	
	x	, x	4	48.40	X	48.40	•
H	X	x	3	36.35	Х	34,35	
11	X	х -	2	24,30	Х	24.30	
11	X	X	ì	12.30	Х	12.30	
11	X	х	l	12.35	Х	12.35	
11	X	x	2	24.35	Х	24.35	
11	Χ	X	3	36.35	Х	36.35	
n	Х	x	<u>†</u> †	48.50	x	48,50	
"1"	х	х	5	60.45	х	60.45	
18	Х	X	(i	72.20	Х	72.20	-
. 91	Х	х	7	84.30	X	84.30	-
	х	х	3	96.10	X	96.10	
ij	Х	Х	· <i>y</i>	108.01	· X	108.01	
71	25	115	10	120.80	29.05	120.80	
	Pressure Voltage Pressure carefully Pressur	Pressure (Voltage 25 X X X X X X X X X	######################################	######################################	### PDJUST: Tem. VOLTS VT/F VOLTS WOLTS WOLT	Pressure Volts V	ADJUST: Temt. Volts of 400 GPS Volts Volts of 400 GPS Volt

REJECTED

INSPECTOR:

11

300076

THEOR-ETICAL SCALE LIMITS NOTES COMMENTS FRICTION LIMITS ERRCR "TIG EKROL X X , X X X X 4.90 120 X X Ň X ±1.2" W Do no: 108 0 25 ±5°C X 1 overshoot 1601500, 4,20 96 χ Ň, ±1. 1" * 84 t,30 -54±2°C X 0 72 +30 11 χ X 0 4.40 60 X X 40 48 4.40 X 40 .36 +,35 Ä X 5 24 +.30 À. Υ, 0 12 4.30 λ 12 1.35 ,05 25 ±500 24 ,05 4.35 150±5°C, 0 7.35 35 -54±2⁸C .10 t.50 43 .05 60 +,45 72 .10 1,20 84 +,30 0 90 +.10 .10 ,01 i. O.s +,01 .10 120 +.80 TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-2) XMTR

DATA TAKEN PRIDE TO SHOCK

DATE: 4/12/64 TIME: 11:00 AM XMTR SN: 1000 TUSTER: RD Showpson

${}_{\mathrm{T}}\Omega_{\mathrm{T}}$.	ADJUST:	TEMP.	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER THG	BARCMETTES THG	TOTAL ''HG
1.3.1	Fressure & Voltage	25	115	9	108.00	29.05	/08
1.3.2	11	x	Х	10	120,30	Х	120,30
1,3.3	Fressure carefully	Х	х .	9	108.35	х	108,35
2.3.4	**	. X	Х	· \$	96.40	X	96.40
1.3.5	**	х.	X	7	84.45	Х	84.45
1.3.6	11	х	X	. (,	72.50	X	72.50
1.3.7	7 11	х	х		60.55	X .	60.55
1,3.8	11	х .	Х	- 1,	48.50	X	48.56
1.3.9	. 11	х	Х	_':	36.50	Х	36,50
1.3.10	11	X.	х -	2	24.40	Х	24,40
1,2,22	**	Х	Х		12.30	X	12,30
1.3.12	11	Х	χ .	ì.	12.25	Х	12.25
1,1.13	' #1	Х	Х	2	24.40	<u> </u>	24,40
1.7.14	£1	. X	X		26.35	Х	36,25
1.3.15	Ħ	Х	х	£;	48.40	х	48.40
1.3.16	11 4	Х	х	b b	60.35	X	60,35
1.7.17	**	х	х	6	72.30	Х	72.30
0.13	11	Х	х	7	84.35	Х	84.35
:.5.19	11	х	. х	ě,	96.30	Χ .	96.30
3.20	٠.	Х	Х.	٠,	108,20	χ	108.20
3.31	,,	25	115	16	120.20	29.05	120.20

ACCEPTED REJECTED

INSERCTOR:

問題	
1 0 1	
111	
1191	
AMIL!	Harel

	THE CONTRACT	AL SCALE	LIMITS	NOTES	FR 108	LIMITS	COMMENTS
	X	х	· x	х		x	
	120	1.36	The state of the last of the l	Х	X	X	
• , ,	1.08	+.35	25 ±5°G	Do not overshoot	i	х	
2	6.	+,40	18025°C.	*	X	х	
	£4	+.45	180±5°C, ±1.3" 6 -54±2°C	٠,	X	х	
	72	+.50	"	11 -	X .	Х	
	60	+.55	ei .	4	X	X	
	48	+.50	••	'1	X	Х	
	36	+.50	**	k f	X	χ	
	24	+.40	,,	••	Х	Х	
	12	+.30	,,	11	X	X	
	12	+.52	1,	.,	,05	+ 6" .s	
	24	+.40	••		0	25 ±5°C	
	36	+:35	.,•		4/3	180 ± 5°C,	
	48	4,19.0	1,100		.10	-54±20°C	
	60	+,35			.20		8- 1
	72	4.30		17	,20	11	
	. 84	+.25	., }	1.	.10	į.	
	96	4.30	.:	11	.10	••	
	103	+,20			.15	× p	
	. 120	+. 2-0		11	.10	n	7 - 57 - 57 - 57 - 57 - 57 - 57 - 57 -
2 11 6		TELE	CTRO-MEK	TNO			-

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-2) XMTR

DATA TAKEN PRIOR TO VIGRATION

1000: 4/12/14 TIME: 4:00 PM XITT. IN: 1000 TEUTER: 25 Thompson

ŀ								
	157:	ADJUST:	TEMP. C	LINE VOLTS & 400 CPS	EMS VTVII VOLTS	MANOMITIA 1977	BAROMETTER THG	TOTAL "IIG
	1.3.1	Fressure % Voltage	25	115	9	108.00	29.05	108
	1.3.2	11	х	Х	10	120.30	Х	120.30
	1.3.3	Pressure carefully	X	х	ŷ	108.25	X	108.25
	3.3.4	11	χ	Х	ક	96.30	Х	96.30
L	543.5	11	х	·x	7	24.40	X	84.40
Ŀ	1.3.6	11	X	X	ţ	72.50	X	72.50
	1.3.7	111	Х	X	5	60.55	X	60.55
	1.3.8	ři .	х	х	4	48.40	X	48.40
	1.3.9	11	X	X	3.	34.45	X	36.45
	1.3,10	11	x	х -	e	24.35	Х	24.35
	3.17	11	Х	х	:	12.40	Х	12.40
	*.3.12	#1	х	х :•		12.35	х	12.35
	1,3.13	. 11	Х	Х	2	24.36	х	24.30
	7,3.14	11	Х	Х		34.25	Х	36.25
	1.3.15	11	Х	X		1230	X	48.30
	1,3,16	11	Х	X		60.30	Х	60,30
	1.3.17	11	Х	х	,	72.55	Х	72.35
; :	1,3.18	11	Х	Х	7	84.25	Х	84,25
	3.7.7	11	, X	Х	ŏ	9630	X	96.30
	1.3.20	(1	Х	Х	9	108.20	X	108.20
	1,3.21	11	25	115	10	120,20	29.05	120.20

201		REJECTED		INSPECTOR	Mi	The	
	THEOR- ETICAL "EG	SCALE ENTOR	Limits	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	У	Х	· х	х	Σ	x	,
ಲ	120	+.30	χ	Х	X	х	
5	108	1.25	21.2' a)	Do not overshoot	٠.	Х	
9	: 96	+.30	180±5°0.	٠	₹	X	
	84	+.40	±1,5"0 -54±200	11	i.	Х	
·	72	+.50	",	••	X	Х	
	60	t.55	†1			X.	
	43	+,40	11	11		х	
	1 to 30	t,45	41	• .		X	
	24	+,35	# 1	**		Σ.	
	12	+,40	,,	**	`.	M	
	1.1	+35	"		.05	1.55	
	24	+.30	11	•	.05	&	
	36	+.52	,,	ŧ	.2.0	18025°C,	
	48	1.20	j g	, The	* . ; ^	-54±20C	or are no state again any east supply in a regularization of the
	60	+130·	61		.25	,.	
	72	+.35	,,	£*	.15	17	
	84,	+, 25	**	· ,	.15	**	
					 	1	

TELECTRO-MEK, INC.

96

103

100

4.30

4.20

4:00

TEST REGORD, TRK-52-1 (300015-2) XMTR

.05

.10

X

DATA TAKEN AT LOW TEMP DATE: 4/14/64 TIME: 4:00 AMXMTR ST: 1000

-	-							
Tast:	ADJUST:	тыне.	LINE VOLTS & 400 CPS	RMS VTVH VOLTS	MANOMETER "HG	BAROMETER THG	TOTAL "HG	
1.3.1	Pressure & Voltage	-54	115	9	108.00	29.15	108	1
1.3.2	3.0	Х	. X	30	120.16	Х	120.10	
1.3.3	Pressure carefully	х	х	Ġ	108.05	Х	108.05	!
1.3.4	91	х	Х	:3	96.00	Х	96.00	
1.3.5	ři.	x	X	7	84.00	X	84.00	
1.3.6	87	Y.	X	ť	72.10	Х	72.10	:
1.3.7	9+	Σ.	X	5,	59.85	Х	59.85	!
1.3.8	11	х	X	4	47.80	χ	47.80	,
1.3.9	**	х	х	3	35.90	X	35.90	:
1.3.10	••	X	x ·	?	22.80	Х	2.80	
3.11	11	Х	Х	;	11.90	Х	11.90	
1.3.12	,,	Х	Х	-	11.80	Х	11.80	
2.3.13	fi	Х	Х	2	23.75	Х	23.75	-
2,3,14	**	X	X	,	35.75	X	35.75	
3.15	67	Х	X	4	47.75	Х	47.75	1
.2.3.16	fi	Х	X	5	59.80	Х	59.80	
1.3.17	**	х	х	t.	71.90	Х	71.90	-
1.3.13	11	Х	X	7	83.80	Х	83.80	-
1.3.19	11	X	Х	3	95.80	X	95.80	-
1.3.20	**	Y	Х	9	108.00	Х	108,00	
1,3,21	,,	-54	115	:0	120.00	29.15	120,00	
								7

REJECTED

INSPECTOR :

Milline

	THLCR- ITLCAL "HG	SCALE ERROR	Linits	NOTES .	FRICTION ERPOR	LIMITS	COMMENTS
	i deges Celono X	.· Х	. X	x	%	X.	
	1.20	+.10	Х	X	Х	X	
5	108	+.05	11.2" // 25 ±5°C	Do no" ovenshort	х	Х	
0	96	0	180:5°G.	! :	X.	Х	
2	84	0	180±5°0, ±1,370 -54±2°0	ŧ.	х	Х	
	72	+.10	,,	11	:.	Х	
	60	15	1:	1.	X	X	
	43	-,20	17	**	Х	Х	
	35	10	•:	,•	٠.	х	
	. 24	-;20	,,	1.		Х	
	1.2	10	,,	11		λ.	
	1.2	20	11	•	.10	± .6" ·	
	24	25	,,		.05	180±5°C,	
	36	.12.5	•		.15		
•	4: "	-:25	* **	#1 ×	n	-sagnec	
	60	-, 20	15	•	.05	,.	
	72	10	11	: •	.20	71	
	81.	-,20	**	11	.20	! '	
	96	-,20	••	ŧr	.20	"	
	1.08	0	11	ę.	.05	,,	
	120	©	1.	#1	.10		

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-2) XMTR

B

DATA TAKEN AFTER VIBRATION
DATE: 4/13/64 TIME: 1:00 AM XMTR SN: 1000 TUSTER: Pushomps

rest:	ADJUST:	тепт. С	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	Manometer ''11g	BAROMETER ''EG	TOTAL "HG	
1.3.1	Fressure & Voltage	25	115	9	108.00	29.25	108	
1.3.2	11	x	Х	10	120.25	X	120.25	
1.3.3	Fressure carefully	X	х	Ţ	108.30	×	108,30	
1,3.4	11	χ	X	5	96.45	X	96,45	
1.3.5	71	х .	X	;	84,45	Х	84,45	,
1.3.6	ft ,	х	Х	ξ,	72.45	Z	72.45	
1.3.7	11	Х	X	5_	60.40	X	60,40	:
1.3.6	17	х	Х	4	48,35	Х	42.35	
1.3.9	. 78	Х	х	7	36,40	Х	36,40	:
1,3,10	**	х	х -	· 3 -	24.40	Х	24,40	
1.1211	tt	Х	Х	·	12.40	Х	12,40	
1.3.12	11	Х	X	1.	/2.35	Х	12.35	<u> </u>
2.3.13	11,	Х	Х	2	24,30	Х	24,30	<u> </u>
3.3.14	ŧ;	X	X	3	36,30	Х	36,30	
2,3,15		X	X	+	48.30	Х	48.30	
1.3.16	114	Х	Х	5	60.25	Х	60.25	
1.3.17	ft	Х	Х	. 6	72.25	Х	72.25	
1.1.1.8	11	Х	Х	7	84.30	Х	84.30	
1.3.19		х	Х	8	96.30	Х	96.30	
1.3.20	11	х	Х	9	108.25	A	108,25	
3.31	11	25	115	10	120.20	29.25	120,20	

REJECTED

INSPECTOR :

: Chet Hime

	TIELOR - ITTICAL 'HIG	SCALE ELECT	LIMITS	NUTES	FRICTION ENTOR	LIMITS	COMMENTS
	**************************************	.• X	, х	Х		X	
	120	+.25	X	X		X	1
	- 108	1.30	11.2' 5 25 ±5°C	Do not overshood		ï	, , , , , , , , , , , , , , , , , , ,
	: 56	+,45	180.50	7:		х	
	£4	7,45	±1, " ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ţ.	`	Х	· ·
	72	1.45	,,	1:	· ·	Х	
	60	7,40	17	4+	÷	Х	
	48	+.35	1.	* 1	ć.	Х	
	36	+,40	• /	**		Х	1
	24	+.40	41	11	\	N	
	12	+.40	"	٠,	: .	Х	
	12	+,35	, n	* 1	.05	± (611 /3) 05 ± 5 0	<u> </u>
	. 24	+.30	r	1.	.10	05 ±5°0 & 180≥5°C,	
	3 0	4.20	•	,	10		
	: 43	1.30	. ir			-54±2°C	To read the special deposits a second
	. 60	t.25	•11	1.	.15	,.	*
·	72	+,25	**	11	.20	,,	
	84	1.30	**	• :	.15	,,	
	96	+.30	**	. 11	.15	"	
	103	+.25	11	1'	.05	••	
	120	+,20	1.1	16	.05	",	

TELECTRO-MEK, INC.

300076

TEST RECORD, TRK-52-1 (300015-2) XMTR

DATA TAKEN AFFER HIGH TEMP @ ROOM
D. TE: 4/11/64 TIME: 8:00 AM XMTR SN: 1000 TUSTER: POShompso

							*	-
TEST:	ADJUST:	TEMP.	LINE VOLTS & 400 CPS	RMS VTVM VCLT'S	MANOMETER "HG	BAROMETER ''HO	TOTAL '	
11	Pressure y Voltage	25	115	٠,	108.00	29.15)OB	
1.3.2	93	х	Х	. 0	120.20	Х	120.20	,
2.3.3	2ressure carefully	Х	Х	ij	108.10	7.	108.10	
1.3.4	11	х	Х	.5	96.15	Х	96.15	
1.3.5	Ft	X	Х	7	84.20	Х	84.20	-
1.3.6	f 1	Х	х	6	72.20	X	72,20	
1.3.7	11	Х	х	5	60.10	λ	60.10	
1.3.8	11	х	Х	4	48.10	X	48.10	
1.3.9	7.9	х	Х	3	36.10	X	36.10	ì
1.3.10	*1	Х.	7 •	ű	24.25	y	24.25	
3.11	,,	х	Х	;	12.20	Х	12,20	
1.3.12	#1	X ·	Х		12.20	Х	12,20	
1.3.13	••	Х	Х	2	24,20	X	24.20	1
1,3,14		X	λ		36.20	Х	36.20	1
1.3.15	žī	Х	Х	<u> </u>	40.00	X	48.20	
1.3.16	11	X	· X	5	60.15	Х	60.15	
1,3.17	E t	Х	х	6	72.15	Х	72.15	
1.3.18	H ,	χ	Х	7	84.15	Х	84.15	
1.3.19	**	х	Х	8	96.10	Χ	96.10	1
1.3.20	11	Х	Х	4	108.10	У.	108.10	
1.3.21	,,	25	115	1.0	120.10	29.15	120.10	

REJECTED [

INSCIETUR: Shilling

	THEOR- ETICAL TIC	SCALE ERROX	Limits	NOTES	FRICTION ENROR	1.1MITS	COMMENTS
	X	X	. х	х	X	х	
	120	720	Х	X	Χ	Х	4, 4
	108	+.10	±1.2" (# 25 ±5°C	Do not overshort	N.	Х	
	96	4.15	180-500.	ğı .	::	X	
	£4	7.20	180±5°C, ±1.5".0 -54±2°C	٠,	Ţ.	Х	
	72	4.20	••	4	X	х .	
	- 60	7.10	11	11	ı .	X	
	1,8	4.10	i÷	.,	· ·	X ·	1.15
	36	+.10	41	**		Х	
	24	t. 25	٠.	**	X	X	
	1.2	1. 2.0	,.	.1	·	X	
	12	4.50	"	٠,	٥	2.611	
	24	ed, ti a	1 t	,,	,05	180 ± 5° C,	·
	. 36	4,20	**	,.	.10	1	
	48	10.0	. 11	gr - 1.	10-	-562203	and the second state of the second se
	: 60	4.15	••	••	.05	,,	
į	72	4.15	٠ ,,		.05	,.	
	8.4	4.15	11	• ·	.05		
	95	+.10	11		,05		
	1.03	÷10	,,	1'	0		
	1.20	+.10	,,	(1	.10	••	

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-2) XMTR

3

4.

DATA TAKEN AFTER SHOCK

	4 Apparation the design that are given to the	·						4
TEST:	adjust 2	TEMP.	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	manometer ''HG	BAROMETER ''HG	TOTAL ''HG	
1.3.1	Pressure 1: Voltage	25	115	9	108.00	29.05	108	
1.3.2	. 11	x	Х	10	120.20	Х	120.30	
1,3,3	Pressure carefully	х	х	Ÿ	108.35	Х	108.35	
13.4	11	х	Х	5	.96,40	Х	96.40	
il3.5.	1.	X .	. X	7	89.40	X	84.40	
1.3.6	17	х	Х	6	72.45	Χ	72.45	:
1.3.7	11	Х	х	5	60.50	Х	60.50	·
1.3.8	31	х	Х	4	48.55	Χ̈́	48.55	
1.5.9	fr .	Х	Х	3	36.45	х	36.45	
1.3.10	79	Х	х -	2	24.35	Y.	24.35	
(1,11	11	Х	х	3	12.45	X	12,45	
1.3.12	P F	X	· x	ί.	12.40	Х .	12,40	
1.3.13	86	Х	х	2	24.30	Х	24,30	i
11.3.14	. 1:	х	х	7	36,30	Х	36,30	
1.3.15	(1	х	Х	24	48,30	X	48,30	
1.3.16	+1	х	Х	5	60,35	Х	60.35	
1.3.17	11	х	х	(ı	72.30	Х	72,30	
11.3.18	11	Х	Х	7	84,25	Х	84.25	
1.3.19	11	٠, ٪	Х	3	96.25	. X	96.25	
1.3.20	t t	Х	х	9	108.30	Х	108,30	
7.,3.21	,,	25	115	G	120,30	29.05	120.30	
								1

ACCEPTED REJECTED

INSI

	· Ollal
Pactor:	Schot Hime

	:	THE CR - ETICAL : ''EG	SCALE ZRROR	LIMITS	NOTES	FRICTION EKROR	LIMITS	COMMENTS
), i	х	Х	х	X	х	
0	i	1.20	4.30	Х	Х	X	х	
5	÷	108	+,35	#1.2" @ 25 #500	Do not overshoos	v.	Х	
10		1. 95	1,40	180±5°0, ±1.87,6	9.	:	Х	
10		∯ 84	+,40	±1.34.20 -34±20	f +		. Х	
15		7?	4.45	11	ę ·	X	X	
0	i	60	+,50	ti .	,,		X	
5		43	+,55	1.			X	
5		36	4.45	**	t ș		χ	
5		21,	7. 35°	٠,,	ţ.		Σ,	2.45
		1.2	+.45	*1	*1	:	Х	
>	!	12	+,46	. "	2.0	.05	2,611 -3	
P	:	24	+,30	11	1.	.05	2507	
ø		3 (,	+,30	· .,	Ľ	1.15	180±5°C,	
Þ	,	45.	4,30	11			-10±20c	· · · · · · · · · · · · · · · · · · ·
5		6(, ,	+.35	,,		.15		
		72	4.35	: '	į.	.10	3+	
-		<u></u> 84	+,25	f (t.	.15	11	
		96	+.25	1+		.15	••	
		1.08	+.36	4.6	1 '	.05	.,	,
•		120	+.30		• •	0	••	

TEST RECORD, TRK-52-1 (300015-2) XMTR

DATA TAKEN AFTER LOW TEMP @ ROOM

19:4/14/64 PINE: 7:00AMXMTR SN: 1000 TUSTER: COSSIONIS SON

1	· .							
rest:	ADJUST:	TEMP.	LINE VOLTS @ 400 CPS	EMS VTVM VOLTS	Manometer Mho	BAR OMET'S:- ''HG	TUTAL ''HG	
1.1.1	Pressure & Voltage	25	115	9	108.00	29.15	,108	
1.3.2) i	х	Х	1 ω	120.15	У.	120.15	
1,3.3	Pressure carefully	х	Х	• 9	108.10	х,	108.10	-
1.3.4	11	х	Х	\$ 8	96.15	Х	. 96.15	·
1.3.5	**	х	Х	;	84.20	Х	84.20	,
1.3.6	f f	Х	· X ·	ť	72,25	'. X	72.25	
1.3.7	. 4•	Х	X ·	. 5	60.30	X	60.3	
1.3:3	11	х	X	4	48.30	X	48.30	
1.3.9	11	х	х	3	36.25	X	36.25	
1.3.10	11	Х	Х	2	24.25	· X	24.25	
L En	11	Х	X .	ì	12.20	Х	12.20	
1.3.12	11	Х	х	ì.	.12.15	Х	12.15	
1, 3.13	**	х	x	. 5	24.20	X ·	24.20	:
1.3.14	l;	Х	X	·	26.20	X	36.20	
1.3.15	Ħ	Х	Х	L	48.25	Х	48.25	1
1.3.1.6	75	Х	х	ڗ	60.20	Х	60.20	
1.83.17	**	Х	х	6	.72.20	X	72.20	
1,3.18	11	х	X	7	84.15	Х	84.15	
1.3.19	11	х	х	3	96.15	X	96.15	
1.3.20	ŧ1 ,	Х	X	9	168.10	Х	108.10	
1.3.21	,,	25	115	10	120.:0	29.15	120.10	
	•							F.

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ACCEPTED L REJECTED

INSPECTOR: _

v	THEOR- ETICAL TIG	SCALE ERROR	LIMITS	NOTES	FRIMICS El ton	LEMITS	COMMENTS
	X	х .	· Х	Х	j.	х	
	1.20	+.15	X	Х		Х	
0	106	+.10	25 ±50°C	Do not overshoot		X	
5	96	1.15	140±5°0, ±1,57°	۳		X	
•	84	4.20	±1,5% 67 -54±2°C	1.		Х	J.
5	72	4.25	11	**	S	Χ	
	60	+.30	ŧŧ	Ţ.*		X	· ·
D	43	+.30	••	,,		X	AND THE PROPERTY OF THE PROPER
F	3 0	+.25	11	1.	;	Σ	-
5	24	+.25	"	**	÷	X	
	1.2	+,20	- 11	.,		Х	
	. 12	+.15	п	r.	.05	±.6" (6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
;	24	+.20	11		.05	180 \$ 5°C,	
	36	+,20	11	r	.05	•	'
	45	+,25	,		.05	- 1. ± 2.0°C	· ·
14	60	+.20	· ·	,.	.10		
;	72	+.20	,,		.05	14	
	84	+. '5	,,		.05	**	
:	90,	+.15	,,	į r	.00	••	
	13.03	+.10			.00	· ·	
	120	+.10	,,	11	.05		

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-2) XMTR

300076

1.1

DATA TAKEN PRIOR TO TEMP-ALT

4/6/64 TIME: 2:00 PM XMTR SN: 1000 TESTER: PLS Thompson

					المراجع والمراجع والم			-
11.77	ADJUST:	Tenr.	LINE VOLTS & 400 CPS	ST.TOV	Manometer The	BAROMETER 'HG	TOTAL "HG	
, 1	Pressure Voltage	55	115	9	108.00	29.20	1.08	
	1.	х	Ж	7,0	120.30	X	120.36	
3	Pressure rarefully	Х	х	Ċ.	108.30	Х	108.30	
14	j:	х	Х	ĝ.	96.35	Х	96.35	+
1.3.5	ş r	X	X	;	24.40	Х	84.40	
1.7.6	1.	Х	Х	ζ,	72,46	X	72.40	
£.3.7	4.	Х	Х	3	60.40	Х	60.40	
1.3.5	1.	Х	X	٤,	48.40	χ̈́	48.40	:
19	ŧ1	Х	Х	3	36.45	Х	36.45	
1.5,10		Х	х -	Q.	24.50	Х	24.50	
1 11	11	Х	Х	·	12.40	X	12.40	
112	,:	Х	X	1,	12.35	Х	12.35	
1. :.13	41	Х	_ X		24.45	X	24.45	:
114		X	Х		14.30	:: -	36.30	
11.5	12	Х	Α		48.30	X	48.30	
1.1.1.0	71	Х	Х	·	60.30	Х	60.30	
1, 1.17	+-	Х	Х	€.	72.35	X	72.35	j
1	1.	Х	` x	7	84,35	х	84,35	
1	tr.	Х	Х	J	96.30	Х	96.30	
120	1.	*	х	G.	108,25	Х	108.25	
1,0,20		25	115	10	120.25	29.20	120,25	

K

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RELIEUTED

INSPECTOR:

	HEOR-	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	I.IMITS	COMMENTS
	X	Х	, X	х	:	х	
36	1.20	1.30	Х	Х	<u> </u>	X	
30	· 108	4.30	11.2" % 25 ±5 C	Do not overshood		X	
35	96	+.35	1,50+500	•		X	
40	84,	+.40	150±5°C, ±1.:" / -54±2°C	t:	:	X	
40	72	+.40	"	10)	х .	
40	60	+.40] "	**	7.	Y.	
40	48	+.40] " [11	1.	Х	
15	36	t.45] ." [1	\	Х	ě
0	24	+,50		,		N.	
0	12	+.40] [;.	X	9 9
5	12	+.35	,,	21	.05	: 67.8 : 67.8	
5	24	+.45	,.		.05	180±5°C,	The second secon
٠	36	t.30		1	:15		4
>	/48	+.36]		/ 0	1-14-20-	
0	60	+30	,. [.10	<u> </u>	,
5	72	+,25] ,.]	1,	105	,.	Tree 4
5		+.35	.,	,,	.05		
	96	+.00	,,	"	,05	<u> </u> ''	· *
5	103	+.25	٠,	,.	.04	. } ,.	
5 1	110	+.25	1 †	.,	.05	1	

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-2) XMTR

DATA TAKEN AFTER TEMP-ALT DROOM
TESTER: ONLY

-							
O TEST:	ADJUST:	TEMP.	LINE VOLTS & 400 CPS	RYS VTVM VOLTS	MANOMETER "HG	BARCMETER - 'UIG	TOTAL .
1.3.1	Pressure & Voltage	25	115	9	108.00	29,15	1 03
1.3.2	21	Х	X		120.25	χ	120.25
1.3.3	Pressure carefully	X	х	,	108.30	X	108.30
12.3.4	11	X	Х	,	96.35	.X	96.35
1.3.5	ı÷	Х	х	-	84.40	Х	84.40
1.3.6	# T	Х	Х	1	72.40	X	72,40
1.3.7	11	Х	Х		60.45	Х	60.45
3.8	† †	х	Х	÷	48.50	X	48.50
1.3.9	11	Х	Х	·	36.50	Х	34.50
1.3.10	11	Х	_ x ·	2.	24.40	Х	24.40
3,11	7.0	Х	Х		12.40	Х	12.40
3.12	t:	Х	У		12.35	X	12.35
13.3.10	t1	Х			24.30	7	24.30
11.3.12	**	Х	Х		34.25	Х	36.25
1.3.15	19	Х	X		42,25	Х	48:25
11.3.16	11	X	Z.		60,30	Х	60:30
1.4.17	tt	X	, K	Ú.	72.25	Х	72.25
1.3.10	1 ;	χ		7	84,20	Х	84.20
1.3.10	. 11	_X	Х	, ,	96.30	Х	96:30
11.4.20	' 1	¥	· // ·	')	108.20	Х	108,20
1		25	115	10	120.00	29.15	120.20

psa		no value de Rijanj ped		189PECTOR		the	
•	MECR- ETICAL TIG	SCALE ERROR	LIMITS	notes	FRICTION ERROR	LIMITS	COMMENTS
	X	x	· x	x	X	Х	
.25	120	+:25	Х	Х	Ä	Х	
3.30	1.08	+.30	±1.2 25 ±500	No not evershie.	\mathbf{X}^{-1}	X _.	
35	96	+.35	180: 100.	٠	γ	X	
40	84	+.40	±1	1.	2.	Х	
40	72	+.40	11	1.		X	
45	60	+,45	. 11	**		Х	
50	48	+,50	11	1.	A	Х	
50	36	+,50	11	•	У	X.	
40	2L.	+.40	,,	7.	X	X	
40	1.2	+.40	11	1 -	:.	X	
35	12	+. 35	11	۲۰	.05	12.01 202	
30	21.	t. % a	4>	·	.10	180°55°C,	-
25	36	+.725	11	:	.25	4.0	
5	48	+.75	‡ '	., :	,25	-54±2 ³ C.	
20	60	4.30	•:		1.15	<u> </u>	,
25	72	+.25	r iv		.15	••	
20	84	t. 20	**	11	,20] "	
30	96	+.30	,	1.4	.05	1.	
0	108	t. 20	11	٠.	,10	,.	
0	120	+.20	,,	ti	.05	11	

TEST RECORD, TRK-52-1 (3000

VAND IN BUREN	and the state of t	-	grade sandgree grade Marry of Charles at Mark 4. In			and the state of t	where the community is necessary and an experience of the company of the community of the c	_
	viver:	report.	131.3 VOLTS 4 400.028		per.		POTAL THE PSID	
	dessure	180	115		73.15	29.15	54.00	
12 5.2	11	X	X		89,25		60.10	
ju 3.3	Pressure carefully	X	, X		83.18	Y.	54.03	,
1.3.4	11	χ			77.21		48.06	-
1,3.5		X	V.		71.16	1 f	42.01	
1.3.6		Х	Х		65.19	X	36.04	
1.3.7		Х	X		59.21		30,06	
1.5.8		X	ж 🐪		53.15	X	24.00	
1.3.0	₹	Х	х	3	47.17		18.02	
1.5.10		X	X		41. 22	7.	12.07	,
1(),4	1.0	Х	χ		35.18	A To be a second	6.03.	,
1.3.12	,	X	X		35.17	7.	6.02	
		X			41.20	X	12.05	
7:1.14	18	X	Х		47.16	y.	18.01	
14.1,15		X	X		53.14	λ	23.99	
12.3.16	11.	X	X	-	59.20	Х	30.05	
1,3.17	17	X	X	7,1	45.16	T P T d t	36.01	
3.18	14	X	Х		71.15	X	42.00	
1.1.19		X	Х		77.19	X	48.04	
11.3.20		X.	X		83.15	λ	54.00	1
5.21		180	115		89.20	29.15	60.05	

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	+.10 +.03 +.06 +.01 +.04 +.06 00 +.02 +.07 +.07	1						CONDIT.
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TEST RECORD, TRK-52-1 (300015-1) XMTR

DATA TAKEN PRIOR TOS JOCK ES Vinnerpe 4/1/2/44 TIME: 1/1500 XMTH SN: 2 HH.I LINE Tipir. AUJUST'S PS/A VOLTS & VT T 400 CPS VC TE PSHID 83.05 54.00 29.05 115 9 60.20 X X · 89.25 10 X i ressure carefully X : 54.09 83.14 48.16 77.21 **X** : X 42.13 71.18 18.65 B. 18. 36.15 15.20 13.71 59.15 30.10 X 24.17 53.22 A 6.4 X X 18.11 **的**有意思, 47.16 X X . 3 X 13710 12.15 41. 20 X X : 2. X 6.18 35, 23 X · X 6.19 35.24 13.12 X X X 41.18 12.13 115.15 X \mathbf{x} X 18.05 1 47.16 31. 1. 14 X X 24.10 53.15 'X 14 1,1.15 - -,11 X 59.08 30.03 ٠<u>٠</u> 1. . . . 6 11 X **X** . 65.10 11 6 36.05 1.3.17 X. Х 71.11 . 11 X 42.06 1.3.15 X 7 X . 8 48.09 77.14 1.3.19 X. X X

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TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-1) XMTR

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TEST RECORD, TRK-52-1 (300015-1) XMTR

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DATA TAKEN AFTER TEMP - L

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PATA TAKEN AFTER LOW TEMP @ COOM
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		ADJUST:	rene.	LINE VOLTS & 400 CPS	VIVMS VIXIS	PSIA	BAR OMETICA THO	Torto
		Pressure & Voltar	25	115	9	€:,,-83. <i>15</i>	29.15	54.00
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16		AUCUTORO RUDOTEN		JKSI ODTO	W.	ildha	
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TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-1) XMTR

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DATA TAKEN PRIOR TO VIBRATION 2

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7	injust.	Tent.	Line Volts 4 400 CPS	ius Verse Verse	PSIA	Bah Catedeer '''.IG	TOTAL
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TELECTRO-MEK, INC.

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